

**ITS
Projects**

in the

Northwest Corridor

I-95 CORRIDOR COALITION



I-95 CORRIDOR
COALITION

Connecticut DOT

Delaware DOT

DC Dept of Public Works

Maine DOT

Maryland DOT

Massachusetts Highway Department

New Hampshire DOT

New Jersey DOT

New York City DOT

New York State DOT

Pennsylvania DOT

Rhode Island DOT

Vermont Agency of Transportation

Virginia DOT

Delaware River and Bay Authority

Delaware River Port Authority

Maine Turnpike Authority

Maryland Transportation Authority

Massachusetts Turnpike Authority

New Jersey Highway Authority

New York State Thruway

Pennsylvania Turnpike Commission

Port Authority of NY & NJ

TRANSCOM

Triborough Bridge and Tunnel Authority

AAA Foundation for Traffic Safety

AMTRAK

ATA Foundation

American Bus Association

Association of American Railroads

Coalition of Northeastern Governors

Federal Highway Administration

Federal Railroad Administration

Federal Transit Administration

High Speed Rail Association

ITS America

National Industrial Transportation League

National Private Truck Council

USDOT Office of Intermodalism

TO: Members, I-95 Corridor Coalition

There are many ITS initiatives underway or in operation within the I-95 Northeast Corridor which may be of interest to you. For this reason, the enclosed document has been prepared based on information received from participating agencies within the Coalition.

We have attempted to provide complete information on each project. Any missing information will be provided in future editions.

Your comments, corrections and additions to this document will be welcomed. Please send them to me.

Very truly yours,

Raman Patel, P.E.
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34-02 Queens Boulevard
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Introduction

This document contains brief descriptions of ITS projects recently completed, underway or planned within the Northeast Corridor. The basic source of this information is from the sponsoring agencies although other secondary sources have also been used. The information has been edited and compiled in a single format. The information is presented alphabetically by agency name. Corrections, additions, deletions or suggestions for improvements are welcomed. This document will be issued on an annual basis.

Baltimore Mass Transit Administration, FTA
MTA Smart Bus

LOCATION: Baltimore, Maryland

CONTRACTOR: Westinghouse

BEGIN DATE: 05/01/88

END DATE: 05/0 1/94

OPER. DATE: 05/01/94

DESCRIPTION: MTA has begun implementation of an automatic vehicle location (AVL) system that provides bus status info to the public while simultaneously improving bus schedule adherence and labor productivity. 50 buses have been equipped with LORAN-C receivers.

FACILITIES: Baltimore City

STATUS: Operational (an initial deployment of system)

TOTAL BUDGET: \$2,500,000

FUNDING SOURCE: Federal Transit Administration

CONTACT: David Hill - Maryland Mass Transit Administration

TEL: (410) 333-4088 FAX: (410) 333-4810

Connecticut DOT

Incident Management System, Greenwich to Branford (173-217) - Construction

LOCATION: Connecticut

CONTRACTOR: Ducci, Rizzo, Semac

BEGIN DATE: 11/01/93

END DATE: 02/01/95

OPER. DATE: 10/01/94

DESCRIPTION: Construction of Freeway Incident Management System for I-95 from the New York State Line to Branford. The system includes 91 CCTV cameras, 216 radar detectors and 47 VMS signs interconnected with fiber optic cable.

FACILITIES I-95

STATUS: Construction completed

TOTAL BUDGET: \$22,000,000

FUNDING SOURCE: STP-Anywhere, Congestion Mitigation

CONTACT: James Mona - Connecticut DOT

TEL: (203) 594-3450 FAX: (203) 594-3476

Connecticut DOT

Incident Management System, Greenwich to Branford (173-217) - Design

LOCATION: Connecticut

CONTRACTOR: Parsons-Brinkerhoff Quade and Douglas

BEGIN DATE: 10/01/92

END DATE: 01/01/96

OPER. DATE:

DESCRIPTION: Design and evaluation of Freeway Incident Management System for I-95 from New York State Line to Branford. The system includes 91 CCTV cameras, 216 radar detectors and 47 VMS signs interconnected with fiber optic cable. All hardware installed under projects 173-244, 245, 247, 248 is operational. Systems operation is pending software integration.

FACILITIES: I-95

STATUS: Design 100% complete. Software is currently integrated for system operation.

TOTAL BUDGET: \$2,779,600

FUNDING SOURCE: STP-A

CONTACT: James Mona - Connecticut DOT

TEL: (203) 594-3450 FAX: (203) 594-3476

Connecticut DOT

Greater Hartford VMS (170-765)

LOCATION: Greater Hartford, Connecticut

CONTRACTOR: Rizzo

BEGIN DATE: 06/01/89

END DATE: 12/01/94

OPER. DATE: 04/01/90

DESCRIPTION: Installed 21 variable message signs on I-84, I-91, I-384, Routes 5 & 15 and Route 2 in various towns in the Greater Hartford area.

FACILITIES: I-84, I-91, I-384, Route 5 & 15, Route 2

STATUS: Complete

TOTAL BUDGET: \$2,337,058

FUNDING SOURCE: Con Prim

CONTACT: James Mona - Connecticut DOT

TEL: (203) 594-3450 FAX: (203) 594-3476

Connecticut DOT

Highway Operations Center (93-125)

LOCATION: Newington

CONTRACTOR: Keating Brothers

BEGIN DATE: 10/01/93

END DATE: 04/01/94

OPER. DATE: 07/01/94

DESCRIPTION: Furnish and install Highway Operations Center for Freeway Incident Management in Newington Department of Transportation Building.

FACILITIES: Highway Operations Center for State of Connecticut

STATUS: Installation complete - operational

TOTAL BUDGET: \$624,700

FUNDING SOURCE: Congestion mitigation, State-Fed

CONTACT: James Mona - Connecticut DOT

TEL: (203) 594-3450 FAX: (203) 594-3476

Connecticut DOT

I-91, I-95, and Parkway VMS (1704127)

LOCATION: Connecticut

CONTRACTOR: Semac

BEGIN DATE: 10/01/92

END DATE: 06/01/95

OPER. DATE:

DESCRIPTION: Eight temporary variable message signs installed along I-91, I-95 and parkway prior to installation of the permanent signs. All 8 VMS have been removed from their temporary locations and have been turned over to the Conn DOT to be used as portable VMS for maintenance and protection of traffic and for major incidents on state highways for detours.

FACILITIES: I-91, I-95, parkways

STATUS: See description.

TOTAL BUDGET: \$420,000

FUNDING SOURCE: Congestion Mit./Air Quality

Connecticut DOT

I-91 Incident Detection (63-482) Demonstration Project

LOCATION: Hartford, CT

CONTRACTOR: ECI

BEGIN DATE: 01/01/93

END DATE: 12/01/95

OPER. DATE: 08/01/93

DESCRIPTION: Design, construct and evaluate cameras and radar detectors algorithms for incident detection on I-91 in Hartford

FACILITIES: I-91, I-84

STATUS: System is in operation and is being evaluated

TOTAL BUDGET: \$1,380,000

FUNDING SOURCE: CM/AQ, Small FHWA Program

CONTACT: James Mona - Connecticut DOT

TEL: (203) 594-3450 FAX: (203) 594-3476

Connecticut DOT
I-95 Ramp Metering

LOCATION: Connecticut

CONTRACTOR: Dunn Engineering Associates

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Preliminary engineering study has been completed for a ramp metering system for I-95 in Southwestern Connecticut (Interchanges 9 through 14).

FACILITIES: I-95

STATUS: Study completed; implementation not feasible.

TOTAL BUDGET:

FUNDING SOURCE:

Connecticut DOT

Incident Management Equipment (173-218)

LOCATION: Fairfield County

CONTRACTOR:

BEGIN DATE:

END DATE: 12/01/92

OPER. DATE:

DESCRIPTION: Purchase emergency radios, batteries and chargers for incident management.

FACILITIES: I-95 Corridor

STATUS: Operational

TOTAL BUDGET: \$100,000

FUNDING SOURCE: STP - A, Fed, State

Connecticut DOT

Rideshare Vans Traffic Reporting (170-1281)

LOCATION: Greater Hartford Area

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Supplemental traffic watchers equip rideworks vans with cellular phones to provide immediate eyewitness traffic reports.

FACILITIES: I-91 & I-84 Corridors

STATUS: Installation scheduled

TOTAL BUDGET: \$328,000

FUNDING SOURCE: IVHS, Fed. Town

CONTACT: Patricia Maerz - Connecticut DOT

TEL: (203) 594-2838 FAX: (203) 594-3445

Connecticut DOT

Rideworks Vans Traffic Reporting (92-451)

LOCATION: Greater New Haven Area

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Supplemental traffic watchers equip rideworks vans with cellular phones to provide immediate eyewitness traffic reports.

FACILITIES: I-95 Corridor

STATUS: Installation scheduled

TOTAL BUDGET: \$40,000

FUNDING SOURCE: IVHS, Fed - Town

CONTACT: Patricia Maerz - Connecticut DOT

TEL: (203) 594-2838 FAX: (203) 594-3445

Connecticut DOT

Route 1 Signal System (173-216)

LOCATION: Stratford to Branford

CONTRACTOR: Semac

BEGIN DATE: 08/01/93

END DATE: 06/01/95

OPER. DATE: 10/01/94

DESCRIPTION: Upgrade of traffic signals along Route 1 Corridor from Stratford to Branford.

FACILITIES: Route 1

STATUS: Under construction

TOTAL BUDGET: \$598,967

FUNDING SOURCE: STP - anywhere

CONTACT: Clifford Jones - Connecticut DOT

TEL: (203) 389-3136 FAX:

Connecticut DOT

Route 1 Signal System (173-246)

LOCATION: Connecticut

CONTRACTOR: Electrical Contractors

BEGIN DATE: 04/01/94

END DATE: 06/01/95

OPER. DATE:

DESCRIPTION: Interconnect/modernize signals on Diversion Route 1 between Greenwich and Branford.

FACILITIES: US 1

STATUS: Under construction

TOTAL BUDGET: \$1,659,184

FUNDING SOURCE: CMAQ

CONTACT: Anil Sehgal - Connecticut DOT

TEL: (203) 389-3163 FAX:

Connecticut DOT

Route 1 Signal System (56-244, 102-259, 135-207 and 173-215)

LOCATION: Greenwich to Bridgeport

CONTRACTOR: Rizzo

BEGIN DATE: 06/01/93

END DATE: 07/01/95

OPER. DATE:

DESCRIPTION: Modernize signals on Route 1 and interconnect into Greenwich, Stamford and Norwalk systems.

FACILITIES: Route 1

STATUS: Under construction

TOTAL BUDGET: \$2,117,658

FUNDING SOURCE: Congestion mitigation, Fed, State

CONTACT: Mark Rolfe - Connecticut DOT

TEL: (203) 389-3157 FAX:

Connecticut DOT

Route 1 Signal System (92-446)

LOCATION: New Haven

CONTRACTOR: Rizzo

BEGIN DATE: 04/01/94

END DATE:

OPER. DATE:

DESCRIPTION: Modernize signals on Route 1 and interconnect into New Haven's signal system.

FACILITIES: Route 1

STATUS: Under construction

TOTAL BUDGET: \$534,231

FUNDING SOURCE: Congestion mitigation, Fed, State

CONTACT: Mahood Moayed-Amini Connecticut DOT

TEL: (203) 389-3145 FAX:

Connecticut DOT

Statewide Incident Management Communication System (1704258)

LOCATION: Statewide

CONTRACTOR:

BEGIN DATE:

END DATE: 10/01/93

OPER. DATE:

DESCRIPTION: Install statewide incident management communication system.

FACILITIES: Statewide

STATUS:

TOTAL BUDGET: \$1,349,000

FUNDING SOURCE: Congestion mitigation, Fed, State

Connecticut DOT
VMS (170-1101, 1102)

LOCATION: Connecticut

CONTRACTOR: Semac Electrical

BEGIN DATE: 07/01/92

END DATE: 09/01/95

OPER. DATE: 10/01/93

DESCRIPTION: Installation of forty-seven LED variable message signs

FACILITIES: I-95, Route 15, Route 1, Route 7, Routes 8 & 25

STATUS: Under construction

TOTAL BUDGET: \$4,728,700

FUNDING SOURCE: STP - Anywhere (80/20)

CONTACT: James Mona - Connecticut DOT

TEL: (203) 594-3450 FAX: (203) 594-3476

Delaware DOT

Observation Balloon System

LOCATION: Delaware

CONTRACTOR: Rafael USA

BEGIN DATE: 05/01/95

END DATE: 04/30/96

OPER. DATE: 05/01/95

DESCRIPTION: Would provide a bird's eye view of a road network via a gyro-stabilized, remote-controlled camera attached to a balloon. DelDOT proposes use to observe and fine tune traffic signal systems; quickly identify incidents; videolog system problem **areas.**

FACILITIES: Statewide

STATUS: Operational

TOTAL BUDGET: \$300,000

FUNDING SOURCE: FHWA, DelDOT

CONTACT: Bruce Littleton - Chief Traffic Engineer, DelDOT
TEL: (302) 739-4361 FAX: (302) 739-6792

CONTACT: Larry LeGates
TEL: (302) 739-3398 FAX: (302) 739-6792

Delaware DOT

Smart DART

LOCATION: Wilmington, Delaware

CONTRACTOR: Multiple

BEGIN DATE: 07/01/94

END DATE:

OPER. DATE:

DESCRIPTION: Will evaluate the use of smart cards for fare collection on Wilmington's entire transit system. The cards will also be used to support Travel Demand Management (TDM) initiatives. Selected as one of 16 IVHS Operational Tests.

FACILITIES: DART Transit System

STATUS: Contracts negotiations

TOTAL BUDGET: \$1,700,000

FUNDING SOURCE: FHWA

CONTACT: Jeff Kihn - Technology Manager, DE Transit Corp.
TEL: (302) 739-3278 FAX: (302) 739-2444

CONTACT: Wade Edwards - EPS
TEL: (302) 791-8029 FAX: (302) 7918699

Delaware DOT
Weigh-in-Motion

LOCATION: Delaware

CONTRACTOR: Greenman-Pedersen, Inc. (GPI)

BEGIN DATE: 08/01/93

END DATE: 12/01/93

OPER. DATE:

DESCRIPTION: A study will be initiated for the location of a combined US 13/DE 1 weigh station.

FACILITIES: US Route 13, Delaware Route 1

STATUS: Study completed

TOTAL BUDGET: \$25,000

FUNDING SOURCE: HPR

CONTACT: Paul Smith - DelDOT
TEL: (302) 739-3163 FAX: (302) 739-2251

CONTACT: David DuPlessis - Project Manager, DelDOT
TEL: (302) 739-3833 FAX: (302) 739-2217

Delaware DOT, Delaware Turnpike

Variable Message Sign System

LOCATION: New Castle County, Delaware

CONTRACTOR Not selected

BEGIN DATE: 01/01/96

END DATE: 01/01/98

OPER. DATE: 10/01/96

DESCRIPTION: Development and installation of system of variable message signs on I-95, I-495, I-295, and selected arterials. Preliminary consultant report completed. Consultant developing locations and structures.

FACILITIES: I-95, I-495, I-295

STATUS: Design underway

TOTAL BUDGET: \$10,600,000

FUNDING SOURCE: 50% FHWA

CONTACT: John Sparks - DelDOT
TEL: (302) 323-4488 FAX: (302) 323-4508

CONTACT: Matthew Hake - FHWA
TEL: (302) 729-1946 FAX: (302) 734-3006

Delaware DOT, Pennsylvania DOT, Maryland, New Jersey

I-95 Traffic Monitoring Evaluation Project

LOCATION: Delaware

CONTRACTOR: State DOT's

BEGIN DATE: 05/01/91

END DATE: 07/01/94

OPER. DATE: 11/01/91

DESCRIPTION: 21 automatic vehicle classification (AVC) and weigh-in-motion (WIM) systems on I-95 in Delaware at the Pennsylvania State line.

FACILITIES: I-95, I-495

STATUS: Data collection complete. Final report due Spring 1996.

TOTAL BUDGET: \$1,400,000

FUNDING SOURCE: FHWA, participating states, vendors

CONTACT: Bruce Littleton - Chief Traffic Engineer, DelDOT
TEL: (302) 739-4361 FAX: (302) 739-6792

CONTACT: Paul Smith - Pavement Management Engineer, DelDOT
TEL: (302) 739-3163 FAX: (302) 739-6792

Delaware River and Bay Authority

Delaware Memorial Bridge ETTM

LOCATION: New Castle, Delaware

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Planning for this project is linked to E-ZPass. When E-ZPass is finalized, will proceed with quick installation.

FACILITIES: Delaware Memorial Bridge, I-295

STATUS: Internal planning proceeding.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Rick J. Volk - Director of Engineering, Delaware RBA
TEL: (302) 571-6309 FAX: (302) 571-6367

CONTACT: Stephen Moore - Maintenance Superintendent
TEL: (302) 571-6362 FAX: (302) 571-6367

Delaware River Port Authority

Backbone communications system

LOCATION: Philadelphia - Camden - PA - NJ

CONTRACTOR: Commonwealth Communications

BEGIN DATE: 05/01/94

END DATE: 12/01/96

OPER. DATE: 12/01/95

DESCRIPTION: A design-build contract to provide DRPA with full communication capabilities to all its facilities for both voice and data.

FACILITIES All facilities

STATUS: Phase I complete

TOTAL BUDGET: \$3,500,000

FUNDING SOURCE: DRPA

CONTACT: Steve Joachim - Director, Technology & MIS

TEL: (609) 963-6420 FAX: (609) 541-6379

Delaware River Port Authority

ETTM

LOCATION: Philadelphia/Camden - PA & NJ

CONTRACTOR: AT&T - Mark IV

BEGIN DATE: 04/01/92

END DATE: 10/01/95

OPER. DATE: 01/01/96

DESCRIPTION: Electronic toll collection at Philadelphia area bridges. Part of E-ZPass

FACILITIES: Ben Franklin Bridge, Walt Whitman Bridge, Betsy Ross Bridge, Commodore Barry Bridge

STATUS: Planning underway and design work proposed

TOTAL BUDGET: \$4,000,000

FUNDING SOURCE: DRPA

CONTACT: Steve Joachim - Director, Technology & MIS

TEL: (607) 963-6420 FAX: (609) 541-6879

Delaware River Port Authority

IVHS Master Plan

LOCATION: PA-NJ

CONTRACTOR: JHK & Associates

BEGIN DATE: 06/01/94

END DATE: 06/01/95

OPER. DATE:

DESCRIPTION: Plan will provide recommendations for design & implementation of IVHS technologies on all DRPA facilities.

FACILITIES: DRPA - Bridges and approaches

STATUS: Study proposed

TOTAL BUDGET: \$750,000

FUNDING SOURCE: DRPA

CONTACT: Steve Joachim - Director - Technology & MIS

TEL: (609) 963-6420 FAX: (609) 541-6879

Delaware River Port Authority

Tri-State Traffic Management Network (TRANSCOM - South)

LOCATION: PA-NJ-DE

CONTRACTOR:

BEGIN DATE: 03/01/93

END DATE: 12/01/96

OPER. DATE: 01/01/97

DESCRIPTION: A communications network linking all traffic management agencies

FACILITIES Regional transportation system

STATUS: Planning underway

TOTAL BUDGET: \$6,000,000

FUNDING SOURCE: Participating agencies

CONTACT: Steve Joachim - Director - Technology & MIS

TEL: (609) 963-6420 FAX: (609) 541-6379

Delaware Turnpike

Highway Advisory Radio

LOCATION: New Castle County, DE

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION:

FACILITIES: I-95, I-295, I-495

STATUS: Operational

TOTAL BUDGET: \$15,000

FUNDING SOURCE:

CONTACT: Fred Bush - Maintenance Supervisor
TEL: (302) 368-6883 FAX: (302) 368-6940

CONTACT: John Sparks - Traffic Management
TEL: (302) 323-4488 FAX: (302) 323-4508

Delaware Turnpike

Incident Response Vehicle

LOCATION: New Castle County, DE

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 07/01/93

DESCRIPTION:

FACILITIES: I-95, I-295, I-495

STATUS: Operational

TOTAL BUDGET: \$60,000

FUNDING SOURCE:

CONTACT: Fred Bush - Maintenance Supervisor
TEL: (302) 368-6883 FAX: (302) 368-6940

CONTACT: John Sparks - Traffic Management
TEL: (302) 323-4488 FAX: (302) 323-4508

Federal Highway Administration

Communication Technologies for Scenic Byways

LOCATION: Study

CONTRACTOR: PBFI

BEGIN DATE: 11/01/95

END DATE: 12/01/96

OPER.DATE:

DESCRIPTION: Study to determine the feasibility of using various communication technologies to provide the motoring public information on services and features of scenic byway corridors. The communication technologies examined for adaptability for use as alternatives to billboards along the scenic routes.

FACILITIES:

STATUS:

TOTAL BUDGET: \$61,696 (\$128,922 PBFI)

FUNDING SOURCE:

CONTACT: Elizabeth Fisher

TEL: (202) 366-0349

FAX:

Federal Highway Administration

ITS for Recreational Travel

LOCATION: Cape Cod, Massachusetts

CONTRACTOR PBF1

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Feasibility study for an operational test to assess the application of ITS for recreational travel to and from Cape Cod, Massachusetts. The results of the study, when deployed, will provide the traveling public opportunity to select route, mode and information choices in their travel.

FACILITIES:

STATUS:

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Beverly Russell

TEL: (202) 366-2202

FAX:

**FHWA, Maryland State Highway Administration,
Virginia DOT**

**District of Columbia Area-wide Operational Test
(Capital)**

LOCATION: Washington, D.C., State of Maryland and State of Virginia.

CONTRACTOR: Engineering Research Associates, PBF, Bell Atlantic Mobile Systems

BEGIN DATE: 08/01/93

END DATE: 09/01/95

OPER. DATE: 06/01/95

DESCRIPTION: The objective of this project is to test and demonstrate the capabilities of cellular phone surveillance technology for detection system to monitor congestion. Special equipment located on cellular phone tower to collect cellular phone usage statistics and geolocate phones on the highways.

FACILITIES:

STATUS: Operational

TOTAL BUDGET: \$7,200,000

FUNDING SOURCE: FHWA

CONTACT: Steve Kuciemba - MSHA
TEL: (410) 787-5884 FAX: (410) 553-6399

CONTACT: Matt Miller - FHWA, Virginia Division
TEL: (804) 281-5108 FAX: (804) 281-5101

I-95 Corridor Coalition

Commercial Vehicle Operations (CVO)

LOCATION: Corridor-wide

CONTRACTOR: Cambridge Systematics

BEGIN DATE: 10/01/94

END DATE: 03/01/96

OPER. DATE:

DESCRIPTION: This project (#4) deals with truck and bus operations along the Northeast Corridor. The ultimate goal of this project is to improve the safety and cost-effectiveness of commercial vehicle travel along the Corridor and overcome existing institutional barriers. Better information, coupled with new technologies to deliver traffic information to commercial vehicle dispatchers and drivers can greatly enhance the effectiveness of trucking and over-the-road bus operations, and improve safety for all travelers.

FACILITIES: N/A

STATUS: Underway

TOTAL BUDGET: \$750,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Marygrace Parker - New York State Thruway Authority
TEL: (518) 436-2816 FAX: (518) 449-3198

I-95 Corridor Coalition

Consultant Support Services

LOCATION: Corridor-wide

CONTRACTOR: I-95 Northeast Consultants

BEGIN DATE: 02/01/93

END DATE:

OPER. DATE:

DESCRIPTION: Staff support to the Coalition, including maintenance of the Coalition's library and files, developing and updating of ITS project inventories, the weekly Construction Advisory, coordination of Coalition and other ITS activity in the corridor, surveys, data collection, and overall administrative support.

FACILITIES: N/A

STATUS: on-going

TOTAL BUDGET: \$2,900,000 to date

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Christine Cox - Administrative Manager, I-95 Corridor Coalition

TEL: (609) 530-4278 FAX: (609) 530-6694

CONTACT: Morey Rothenberg - I-95 NEC

TEL: (703) 820-5455 FAX: (703) 820-8062

I-95 Corridor Coalition

Coordinated VMS/HAR Systems

LOCATION: Corridor-wide

CONTRACTOR: I-95 Northeast Consultants

BEGIN DATE: 05/01/94

END DATE:

OPER. DATE:

DESCRIPTION: This project's (#9), objective was to develop a plan to provide real-time and consistent information to motorists throughout the Corridor on a continual basis. Variable Message Signs (VMS) and Highway Advisory Radio (HAR) are two of the major methods now being used to provide information to the traveling public. Traditionally, VMS/HAR have been used to provide local information. Providing regional and corridor information is a logical next step. Building upon existing and planned VMS/HAR elements, this project has developed a structure and deployment strategy for overall corridor-wide coordination and communications.

FACILITIES: N/A

STATUS: Completed

TOTAL BUDGET: \$1,000,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Brian Smith - Transp. Research Scientist, Virginia Transp. Research Council
TEL: (804) 293-1930 FAX: (804) 293-1990

I-95 Corridor Coalition

Corridor-wide AVI/ETTM Strategy

LOCATION: Corridor-wide

CONTRACTOR: TBD

BEGIN DATE: 11/01/96

END DATE: 12/01/96

OPER. DATE:

DESCRIPTION: This project (#15) develops a strategy for coordinating the several ETTM activities underway in the I-95 Corridor Coalition. The largest, most advanced program is the E-ZPass project being conducted by a consortium of 8 trans. authorities in the NY metropolitan area, NJ & PA. The E-ZPass Consortium has selected a vendor and a technology and is beginning deployment of an automated ETTM system. The E-ZPass Consortium handles 40% of toll transactions nationwide and accounts for 67% of all toll revenues. Several other Coalition agencies are in various stages of ETTM feasibility studies or deployment in ME, MA, DE, MD and VA. This project will identify the current ETTM activities in the Corridor and create a forum to assess the options for long term compatibility and develop a strategic program for achieving this objective.

FACILITIES: N/A

STATUS: Ongoing, procurement process underway

TOTAL BUDGET: \$100,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Dennis Keck - Office of Policy and Planning, New Jersey DOT
TEL: (609) 530-2089 FAX: (609) 530-2092

I-95 Corridor Coalition

HAR Operational Test

LOCATION: Corridor-wide

CONTRACTOR: I-95 Northeast Consultants with HAR contractor

BEGIN DATE: 07/01/95

END DATE: 01/01/97

OPER. DATE:

DESCRIPTION: This operational test will evaluate options for a coordinated multi-agency HAR system, evaluate the institutional mechanisms for an I-95 Corridor Coalition-wide HAR system previously developed, install additional HAR stations at key locations in the I-95 Corridor that now lack coverage, and test the communications infrastructure and operating protocols for a comprehensive HAR system. The operational test will develop and use common protocols to communicate with both HAR and VMS which will include the National Traffic Control/ITS Communications Protocol (NTCIP) now being developed for traffic signals by FHWA and NEMA.

FACILITIES: N/A

STATUS: Initiate Operational Test during the summer of 1995 for a two year period.

TOTAL BUDGET: \$1,500,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: K. R. Marshall - I-95 Northeast Consultants
TEL: (301) 816-1839 FAX: (301) 816-1884

I-95 Corridor Coalition

Incident Management - Detection, Response and Operations

LOCATION: Corridor-wide

CONTRACTOR: I-95 Northeast Consultants

BEGIN DATE: 05/01/94

END DATE: 03/01/96

OPER. DATE:

DESCRIPTION: This project (#2) is to develop guidelines outlining Standard Operating Procedures (SOPs) for regional/corridor incident notification and fixed action notification with emphasis on areas that are common throughout the Corridor. The purpose of the guidelines is to provide regional/corridor coordination, a seamless approach to incident management, and to improve the state-of-the-practice. The focus is on incidents that require multi-agency response, and corridor-wide diversion plans.

FACILITIES: N/A

STATUS: Underway

TOTAL BUDGET: \$1,500,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: James Mona - Transp. Superv. Eng., Connecticut DOT
TEL: (203) 594-3450 FAX: (203) 594-3476

I-95 Corridor Coalition

Information Exchange Network

LOCATION: Corridor-wide

CONTRACTOR: I-95 Northeast Consultants

BEGIN DATE: 06/01/94

END DATE: 12/01/96

OPER. DATE: 01/01/96

DESCRIPTION: This project (#1) is to unite the member agencies of the I-95 Corridor Coalition by improving communications and facilitating the coordinated management of the I-95 Corridor from Maine to Virginia. The availability of the real-time information provided by the IEN is crucial in establishing collective measures to reduce delays and increase safety for travelers. The IEN project will initially deploy 60 to 75 networked workstations to provide real-time information to the member agencies of the Coalition. The available information includes: incident data, construction, traffic conditions, and multimodal traveler information.

FACILITIES IEN workstations currently deployed at various locations in the Corridor, including the Maryland SHA, TRANSCOM, Massachusetts H.D., ConnDOT, VDOT, New York State Thruway, and PennDOT. Others being deployed in immediate future.

STATUS: Underway

TOTAL BUDGET: \$6,000,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Al Karoly - Traffic Eng. & Safety, New York State DOT
TEL: (518) 457-7438 FAX: (518) 457-1780

I-95 Corridor Coalition

Intermodal Outreach and Information Exchange

LOCATION: Corridor-wide

CONTRACTOR: Sverdrup & Parcel

BEGIN DATE: 08/01/95

END DATE: 08/01/96

OPER. DATE:

DESCRIPTION: This project (#12) will focus on intermodal coordination and efficiency as well as the expansion/outreach of the I-95 Corridor Coalition to involve the interregional functions of other public or private entities including the full array of transportation providers and users within the Corridor. The objectives are to broaden the scope of the Coalition's activities, improve intermodal coordination, and to deal more directly with various technical and institutional issues affecting the traveling public, and the provision of intermodal transportation services.

FACILITIES: N/A

STATUS: The Coalition staff and project team will address multi-modal requirements during the next twelve months.

TOTAL BUDGET: \$300,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Elizabeth S. Voras - Dep Secy for Aviation, Rail, Freight, Pennsylvania DOT
TEL: (717) 783-2026 FAX: (717) 787-5491

I-95 Corridor Coalition

Long Range Strategic Plan

LOCATION: Corridor-wide

CONTRACTOR: I-95 Northeast Consultants

BEGIN DATE: 06/01/94

END DATE: 06/01/95

OPER. DATE:

DESCRIPTION: The focus of this project (#17) was to assist the Coalition in developing a long-range strategic plan that defines its long-term vision, policies, and plans. The Coalition's strategic plan complements those of its member agencies as well as relates to USDOT and ITS America strategic plan for ITS activities. Broad elements such as the goals and vision statement have a time horizon of 20 years, while strategies have a ten-year horizon.

FACILITIES: N/A

STATUS: Final Strategic Plan approved by the Executive Committee in June, 1995. Copies available upon request.

TOTAL BUDGET: \$250,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Christine Cox - Administrative Manager, I-95 Corridor Coalition

TEL: (609) 530-4278 FAX: (609) 530-6694

CONTACT: Morey Rothenberg - I-95 NEC

TEL: (703) 820-5455 FAX: (703) 820-8062

I-95 Corridor Coalition

Long Term Financing

LOCATION: Corridor-wide

CONTRACTOR: TBD

BEGIN DATE: 12/01/96

END DATE: 12/01/97

OPER. DATE:

DESCRIPTION: The purpose of this project is to study available options and develop a plan for a suitable source of stable and predictable funding for the I-95 Corridor Coalition utilizing the window of opportunity provided in the two remaining years of federal funding support provided in ISTEA. Among the options to be studied will be the establishment of an I-95 pooled resource infrastructure bank that would be initially capitalized with federal seed money. This concept would fit into recent USDOT proposals to develop infrastructure banks as a means of innovatively financing transportation projects. The study will also look into ways to encourage broader participation of public and private entities in providing host responsibilities and non-federal matching resources to Business Plan projects.

FACILITIES: N/A

STATUS: Ongoing, procurement process underway

TOTAL BUDGET: \$100,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Christine Cox - Administrative Manager, I-95 Corridor Coalition

TEL: (609) 530-4278 FAX: (609) 530-6694

CONTACT: Phil Leshinsky - Director for Administration, Triborough Bridge & Tunnel Authority

TEL: (212) 468-2340 FAX: (212) 474-8910

I-95 Corridor Coalition

Operational Tests

LOCATION: Corridor-wide

CONTRACTOR: TBD

BEGIN DATE: 01/01/96

END DATE:

OPER. DATE:

DESCRIPTION: The I-95 Corridor Coalition will conduct a number of operational tests (optests) over the next several years. Operational tests will focus on several areas including ATIS, CVO, and ATMS. Specific operational tests scopes of work will be developed. In addition, an “open-ended” operational test program will be initiated soliciting optests, not previously defined, that would contribute to the Coalition’s program.

FACILITIES: N/A

STATUS: Procurement process is now getting underway

TOTAL BUDGET: \$3,150,000+

FUNDING SOURCE: FHWA and participating agencies TBD

CONTACT: Raman Patel - Technical Coordinator

TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: TBD

TEL: FAX:

I-95 Corridor Coalition

Public/Private Sector Outreach

LOCATION: Corridor-wide

CONTRACTOR: I-95 Northeast Consultants

BEGIN DATE: 06/01/93

END DATE: 06/01/96

OPER. DATE:

DESCRIPTION: This project (#5) is an ongoing activity - both internal. and external - to generate dialogue and develop new approaches to foster public/private collaboration in deployment. The focus includes improving the Coalition's understanding of private sector perspectives and technical resources as well as the development of effective means of capitalizing on private sector initiatives and investment in the actual deployment and operations of ITS systems by Coalition member agencies.

FACILITIES: N/A

STATUS: Ongoing

TOTAL BUDGET: \$250,000 to date

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Christine Cox - Administrative Manager, I-95 Corridor Coalition
TEL: (609) 530-4278 FAX: (609) 530-6694

CONTACT: Bill Stoeckert - Highway Operations Division, ConnDOT
TEL: (203) 594-2630 FAX: (203) 594-2655

I-95 Corridor Coalition

Regional Communication Coordination Centers

LOCATION: Corridor-wide

CONTRACTOR: TBD

BEGIN DATE: 04/01/96

END DATE: 04/01/97

OPER. DATE:

DESCRIPTION: This project (#16) will examine several options to share information and coordinate various functions and activities within the I-95 Corridor Coalition. One such option is on a regional basis, using regional information already gathered from other Coalition projects, existing and planned transportation operations/management systems, transportation infrastructure, travel patterns, major incident and special event patterns, and other factors. This project will examine regional coordination compared to other models. The project would also seek to prioritize, as appropriate, ITS User Services for regional corridor centers in different parts of the Corridor.

FACILITIES: N/A

STATUS: Ongoing, procurement process underway

TOTAL BUDGET: \$350,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition

TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: TBD

TEL: FAX:

I-95 Corridor Coalition

Rural Mayday/800 Call in System

LOCATION: Corridor-wide

CONTRACTOR: TBD

BEGIN DATE: 12/01/96

END DATE: 12/01/97

OPER. DATE:

DESCRIPTION: This project would involve the operational test of a rural 800 number for calling in incidents on more remote portions of the I-95 Corridor Coalition network. It would also be combined with a corridor-wide emergency traveler Mayday system and/or a traveler phone mail system. What is required is a system permitting drivers to communicate rapidly & directly with a control communications service following an accident or disablement. Ideally, the system would be based on an in-vehicle device which allows the driver to request assistance and via a GPS system provide accurate identification of the vehicle location and nature of the problem. Use of an in-vehicle device or a Personal Computing Device (PCD) keyed to a particular owner will help reduce the incidence of false alarm. In its most sophisticated form, the system would provide two-way voice communication.

FACILITIES: N/A

STATUS: Ongoing, procurement process underway

TOTAL BUDGET: \$350,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition

TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: TBD

TEL: FAX:

I-95 Corridor Coalition

Surveillance Requirements/Technology

LOCATION: Corridor-wide

CONTRACTOR: Loral Aerosys, Inc.

BEGIN DATE: 08/01/94

END DATE: 08/01/95

OPER. DATE:

DESCRIPTION: The objectives of this project (#3) were to identify' the surveillance needs in the I-95 Corridor to support ITS services, and to develop a conceptual system design and a business plan for a corridor-wide surveillance system. Among the tasks performed was an assessment of existing and emerging surveillance technologies (including traffic monitoring, air quality monitoring, and vehicle weight sensing). Another was the development of concepts for stand-alone field operational test projects.

FACILITIES: N/A

STATUS: Completed, final report is available.

TOTAL BUDGET: \$475,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Charles Hall - Asst. State Traffic Engineer, VDOT
TEL: (804) 786-6777 FAX: (804) 225-4978

I-95 Corridor Coalition

Technology Exchange and Training Program

LOCATION: Corridor-wide

CONTRACTOR: TBD/under contract to I-95 Northeast Consultants

BEGIN DATE: 07/01/95

END DATE:

OPER. DATE:

DESCRIPTION: This project (#11) is to develop, manage and deliver a technology exchange and training program for the I-95 Corridor Coalition agencies using consultant, academic, and seconded agency staff. Program will include simple responses to requests from agency members, systematic preparation of varying length issue papers and analyses, development & presentation of short courses on technical and institutional issues, as well as on-site multi-week hands on training at operations centers. Training would cover all personnel levels from technicians to operations managers. Staff from one agency may be temporarily housed at another agency to gain operational experience. The Program will be under the shared guidance of the HOGS and FRAT group and will utilize currently developed course materials from government or academic sources.

FACILITIES: N/A

STATUS: Ongoing

TOTAL BUDGET: \$200,000 for initial efforts

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Arnold Mercer - New Jersey Highway Authority
TEL: (908) 442-8600 FAX: (908) 293-1106

I-95 Corridor Coalition

Traveler Information Services

LOCATION: Corridor-wide

CONTRACTOR: Loral Aerosys, Inc.

BEGIN DATE: 08/01/94

END DATE: 10/01/95

OPER. DATE:

DESCRIPTION: The primary objective of this project (#8) was to develop the conceptual system design and the framework for public/private partnerships that will support the development of a corridor-wide Advanced Traveler Information System (ATIS). To achieve the objective, this project examined existing and planned ATIS deployment in the Corridor, developed goals and objectives for the corridor-wide ATIS, and evaluated applicable technologies. Using this information, the project developed the logical and physical architecture for the Corridor's ATIS. In addition to this effort, the project developed the scenarios for the public/private partnerships that will need to be in place for the deployment of the system.

FACILITIES: N/A

STATUS: Completed

TOTAL BUDGET: \$750,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Harvey Knauer - Project Coordinator, I-95 Intermodal Mobility Project, Penn DOT
TEL: (610) 964-6537 FAX: (610) 964-6668

I-95 Corridor Coalition

User Needs and Marketability

LOCATION: Corridor-wide

CONTRACTOR: Urban Engineers, Inc.

BEGIN DATE: 08/01/94

END DATE: 03/01/96

OPER. DATE:

DESCRIPTION: The primary objectives of this project (#6) are to identify the information needs of the travelers in the Northeast Corridor, and determine the market potential of those information needs. A comprehensive study, encompassing a multimodal orientation, is being conducted to assess the user information needs in the Corridor, and to determine the market potential for such information. The assessment of user needs was performed through several survey mechanisms, including focus groups, individual interviews, phone surveys, and mail surveys.

FACILITIES: N/A

STATUS: Ongoing

TOTAL BUDGET: \$750,000

FUNDING SOURCE: I-95 Corridor Coalition

CONTACT: Raman Patel - Technical Coordinator, I-95 Corridor Coalition
TEL: (718) 786-2442 FAX: (718) 937-6807

CONTACT: Mary Ameen - Asst. Chief Engineer, New Jersey Highway Authority
TEL: (908) 442-8600 FAX: (908) 293-1106

Maine DOT/ New Hampshire DOT, and Vermont AOT

IVHS CVO Institutional Issues Study

LOCATION: Maine, New Hampshire, Vermont

CONTRACTOR: Cambridge Systematics, Cambridge, MA

BEGIN DATE: 12/01/93

END DATE: 11/01/95

OPER. DATE:

DESCRIPTION: The primary objectives of the study are to:

- Identify and define priority markets for the application of ITS technologies;
- Identify applications with strong potential benefits and reasonable potential risks;
- Determine the institutional barriers to successful implementation of ITS technologies;
- Develop pragmatic strategies for overcoming the barriers; and
- Work toward consensus for a t&state/regional program, drawing on potential system users and best practices.

FACILITIES:

STATUS: Final report. Option of a Business Plan completion.

TOTAL BUDGET: \$150,000

FUNDING SOURCE: \$50,000 per state

CONTACT: Tim Bolton - Maine DOT

TEL: (207) 287-2680 FAX: (207) 287-8300

CONTACT:

TEL: FAX:

Maine Turnpike Authority

Alternative Toll Collection Study

LOCATION: Maine

CONTRACTOR: HNTB Corp.

BEGIN DATE: 06/01/92

END DATE: 06/01/94

OPER. DATE: 04/01/96

DESCRIPTION: This study determines the feasibility of alternative toll collection methods on the Maine Turnpike. Among the alternatives is collection in a closed barrier concept with ETC (ETTM). Automatic Vehicle Classification will be reviewed in the design.

FACILITIES: I-95 and I-495 (Maine Turnpike)

STATUS: Study complete; Design underway

TOTAL BUDGET:

FUNDING SOURCE: Toll revenues

CONTACT: Paul E. Violette - Executive Director, Maine Turnpike Authority
TEL: (207) 871-7771 FAX: (207) 871-7739

CONTACT: Roland A. Lavallee - Civil/Hwy. Eng. Mgr., HNTB Corp.
TEL: (617) 267-6710 FAX: (617) 236-1233

Maine Turnpike Authority

Variable Message Sign Study

LOCATION: Maine

CONTRACTOR: HNTB Corp.

BEGIN DATE: 06/01/91

END DATE: 08/01/93

OPER. DATE: 07/01/96

DESCRIPTION: This study reviews the need and usefulness of installing permanent variable message signs on the Maine Turnpike.

FACILITIES: I-95 and I-495 (Maine Turnpike)

STATUS: Study complete, design underway

TOTAL BUDGET:

FUNDING SOURCE: Toll revenues

CONTACT: Margaret Trueworthy - Director of Public Safety, Maine Turnpike Authority

TEL: (207) 871-7741 FAX: (207) 871-7739

CONTACT: Roland A. Lavallee - Civil/Hwy. Eng. Mgr., HNTB Corp.

TEL: (617) 267-6710 FAX: (617) 236-1233

**Maryland SHA, VDOT, Montgomery Co. DOT, Fairfax
Co. Police Dept.**

Airborne Video System

LOCATION: Montgomery Co., MD; Fairfax Co., VA

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 08/01/93

END DATE: 11/01/94

OPER. DATE: 04/01/94

DESCRIPTION: Test and evaluate the transmission of live video from fixed-wing aircraft and helicopter to county and state traffic management centers in MD and VA and to mobile command centers established at major incident scenes. This is an op test and has several objectives.

FACILITIES: Montgomery County, Northern Virginia

STATUS: Final report published in August 94. Moving into Phase II upgrade including video image stabilization.

TOTAL BUDGET: \$1,300,000

FUNDING SOURCE: FHWA

CONTACT: Steve Clinger - FHWA - Region 3
TEL: (410) 962-3815 FAX: (410) 962-3419

CONTACT: Gene Donaldson - Montgomery Co. DOT
TEL: (301) 217-2190 FAX: (301) 217-2637

Maryland State Highway Administration

ATMS Area Wide Project #1

LOCATION: Maryland

CONTRACTOR: TBD

BEGIN DATE: 02/01/96

END DATE: 02/01/98

OPER. DATE: 03/01/98

DESCRIPTION: ID Project/I-270: VMS, Traffic Detectors, Weather Sensors, CCTV Cameras and Fiber Optics to assist in managing congestion on I-270 and I-495.

FACILITIES: I-270 and I-495

STATUS: Area wide contracts being prepared

TOTAL BUDGET: \$10,050,000

FUNDING SOURCE: FHWA - Interstate Discretionary Funds

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

ATMS Area Wide Project #2

LOCATION: Maryland

CONTRACTOR: TBD

BEGIN DATE: 06/01/96

END DATE: 06/01/98

OPER. DATE: 07/01/98

DESCRIPTION: ID Project/US 50: VMS, Traffic Detectors, Weather Sensors, CCTV Cameras and Fiber Optics to assist in managing congestion on US 50 and I-95.

FACILITIES: US 50 and I-95

STATUS: Area wide contracts being prepared

TOTAL BUDGET: \$8,800,000

FUNDING SOURCE: FHWA - Interstate Discretionary Funds

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

ATMS Area Wide Project #3

LOCATION: Maryland

CONTRACTOR: TBD

BEGIN DATE: 06/01/96

END DATE: 06/01/98

OPER. DATE: 07/01/98

DESCRIPTION: ID Project/I-97: VMS, Traffic Detectors, Weather Sensors, CCTV Cameras and Fiber Optics to assist in managing congestion on I-97 and I-695.

FACILITIES: I-97 and I-695

STATUS: Area wide contracts being prepared

TOTAL BUDGET:

FUNDING SOURCE: FHWA - Interstate Discretionary Funds

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

ATMS Area Wide Project #4

LOCATION: Maryland

CONTRACTOR: TBD

BEGIN DATE: 07/01/96

END DATE: 07/01/98

OPER. DATE: 08/01/98

DESCRIPTION: ID Project/I-97: VMS, Traffic Detectors, Weather Sensors, CCTV Cameras and Fiber Optics to assist in managing congestion on I-97 and US 50.

FACILITIES: I-97 and US 50

STATUS: Area wide contracts being prepared

TOTALBUDGET:

FUNDING SOURCE: FHWA - Interstate Discretionary Funds

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

ATMS Area Wide Project #5

LOCATION: Maryland

CONTRACTOR: TBD

BEGIN DATE: 07/01/96

END DATE: 07/01/98

OPER. DATE: 08/01/98

DESCRIPTION: ID Project/I-97: VMS, Traffic Detectors, Weather Sensors, CCTV Cameras and Fiber Optics to assist in managing congestion on I-95, I-83, I-795, and MD 295.

FACILITIES: I-95, I-83, I-795, and MD 295.

STATUS: Area wide contracts being prepared

TOTAL BUDGET:

FUNDING SOURCE: FHWA - Interstate Discretionary Funds (most likely Fund 85)

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

CCTV 1

LOCATION: Baltimore-Washington corridor

CONTRACTOR: MC Dean

BEGIN DATE: 04/01/94

END DATE: 06/01/95

OPER. DATE: 09/01/95

DESCRIPTION: 7 closed circuit television cameras and 3 communications subsystems.

FACILITIES: I-95/I-495 and I-95/I-695 interchanges

STATUS: Construction nearing completion

TOTAL BUDGET: \$1,234,170

FUNDING SOURCE: Federal - CMAQ

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Jeff Randall - JHK & Associates
TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration

CCTV 2

LOCATION: Baltimore Beltway

CONTRACTOR: Rommel Electric

BEGIN DATE: 08/01/94

END DATE: 07/01/95

OPER. DATE: 09/01/95

DESCRIPTION: 7 closed circuit television cameras and 4 communications subsystems.

FACILITIES: I-95, I-695, I-70, I-395

STATUS: Construction nearing completion

TOTAL BUDGET: \$910,200

FUNDING SOURCE: Federal - CMAQ & IVHS

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Jeff Randall - JHK & Associates
TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration

CCTV 3

LOCATION: Capital Beltway - Washington metro area

CONTRACTOR Rommel Electric

BEGIN DATE: 08/01/94

END DATE: 07/01/95

OPER. DATE: 09/01/95

DESCRIPTION: 8 closed circuit television cameras and 4 communications subsystems.

FACILITIES: I-95, I-495

STATUS: Construction nearing completion

TOTAL BUDGET: \$1,150,000

FUNDING SOURCE: Federal - IVHS

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Jeff Randall - JHK & Associates
TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration
Chesapeake Highway Advisory Routing for Traffic
(CHART)

LOCATION: State of Maryland

CONTRACTOR: PBF

BEGIN DATE: 01/01/90

END DATE:

OPER. DATE:

DESCRIPTION: The purpose of this project is to provide control of the State's variable message signs (VMS) and highway advisory radio (HAR) systems. The system is designed to permit control of these systems from multiple computer workstations in district offices throughout the State.

FACILITIES:

STATUS: Operational

TOTAL BUDGET: \$310,000

FUNDING SOURCE:

CONTACT: Barry Ring - Contracting Officer

TEL: (301) 787-5804 FAX:

Maryland State Highway Administration

Fiber Optic Resource Sharing

LOCATION: Maryland

CONTRACTOR: MCI Telecommunications & TCG, Inc.

BEGIN DATE: 10/01/94

END DATE:

OPER. DATE: 07/01/95

DESCRIPTION: Installation of 75 miles of fiber optic cable from northern Maryland to Silver Spring, along I-83 to I-695 & I-95.

FACILITIES: I-83, I-695, I-95

STATUS: Installation of conduit is 100% complete

TOTAL BUDGET: \$0 (state's cost)

FUNDING SOURCE: Partnering

CONTACT: Charles Goepel - Director, Advanced Telecommunications Projects

TEL: (410) 225-4432 FAX: (410) 333-5163

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA

TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

Metropolitan IVHS Plan

LOCATION: Maryland, statewide

CONTRACTOR: JHK & Associates

BEGIN DATE: 01/01/94

END DATE: 01/26/96

OPER. DATE: 01/26/96

DESCRIPTION: IVHS Strategic Plan for metropolitan areas of Washington, Baltimore, Frederick, and Annapolis.

FACILITIES: Statewide

STATUS: Draft complete; preparing final plan.

TOTAL BUDGET:

FUNDING SOURCE: Federal - IVHS

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA

TEL: (410) 787-5884 FAX: (410) 582-9469

CONTACT: Jeff Randall - JHK

TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration

Overhead Detection 1

LOCATION: Maryland, statewide

CONTRACTOR: Alcatel Contracting

BEGIN DATE: 08/01/94

END DATE: 07/01/95

OPER. DATE: 10/01/95

DESCRIPTION: 114 overhead detectors at 51 sites.

FACILITIES: I-95, I-495, I-270, I-695, I-83

STATUS: Construction nearing completion.

TOTAL BUDGET: \$1,342,000

FUNDING SOURCE: Federal - IVHS

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Jeff Randall - JHK & Associates
TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration

Statewide Operations Center - Building

LOCATION: Hanover, Maryland

CONTRACTOR: Lakeside (construction); Greiner (architect)

BEGIN DATE: 09/01/92

END DATE: 11/01/94

OPER. DATE: 12/01/94

DESCRIPTION: Construction of a 2-story operations center on-site at the Office of Traffic and Safety.

FACILITIES: Statewide

STATUS: Construction complete

TOTAL BUDGET: \$1,575,000

FUNDING SOURCE: Federal - G Funds

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

CONTACT: Lee McMichael - Director Statewide Operations Center
TEL: (410) 582-5610 FAX: (410) 582-9880

Maryland State Highway Administration

Statewide Operations Center - Specialized Equipment

LOCATION: Hanover, MD

CONTRACTOR: JHK & Associates (integration consultant)

BEGIN DATE: 06/01/93

END DATE: 06/01/95

OPER. DATE: 08/30/95

DESCRIPTION: Includes all computers, communications, and display hardware necessary to complete systems integration of state-of-the-art operations center.

FACILITIES: Statewide Operations Center, Hanover, Maryland

STATUS: Procurement nearing completion

TOTAL BUDGET: \$2,119,850

FUNDING SOURCE: Federal - G Funds

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA

TEL: (410) 787-5884 FAX: (410) 582-9469

CONTACT: Jeff Randall - JHK & Associates

TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration

Statewide Operations Center - System Integration & Engineering Services

LOCATION: Hanover, MD

CONTRACTOR: JHK & Associates

BEGIN DATE: 04/01/93

END DATE: 07/01/95

OPER. DATE: 08/30/95

DESCRIPTION: Provide complete systems integration, software development, implementation and training for state-of-the-art operations center.

FACILITIES: Statewide Operations Center, Hanover, Maryland

STATUS: Nearing completion on all elements

TOTAL BUDGET: \$2,004,197

FUNDING SOURCE: Federal - G Funds

CONTACT: Michael Zezeski - Chief, Traffic Development and Support Division, MSHA

TEL: (410) 787-5860 FAX: (410) 582-9469

CONTACT: Jeff Randall - JHK & Associates

TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration

Statewide Operations Center System Managers

LOCATION: Hanover, MD

CONTRACTOR: JHK & Associates, Inc. Farradyne Systems, Inc.

BEGIN DATE: 09/01/94

END DATE: 09/01/97

OPER. DATE: 09/01/97

DESCRIPTION: Two contracts to provide software & communications support & development for the SOC

FACILITIES: Statewide Operations Center, Hanover, Maryland

STATUS: JHK & Farradyne working on system integration and Phase II operating system enhancements.

TOTAL BUDGET: \$2,000,000

FUNDING SOURCE: FHWA

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA

TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

Traffic Signal Preemption

LOCATION: Prince George's County, Maryland

CONTRACTOR:

BEGIN DATE: 09/01/96

END DATE: 03/01/97

OPER. DATE: 04/01/97

DESCRIPTION: Signal systemization for bus preemption.

FACILITIES: MD5

STATUS: Preliminary plans completed

TOTAL BUDGET: \$450,000

FUNDING SOURCE: \$410K- FHWA/CMAQ, \$40K-MSHA

CONTACT: Woody Hood III - Traffic Engineer, MSHA
TEL: (410) 787-5878 FAX: (410) 582-9469

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems
Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

Maryland State Highway Administration

Traveler's Advisory Radio

LOCATION: Maryland, statewide

CONTRACTOR:

BEGIN DATE: 05/01/93

END DATE: 05/01/94

OPER. DATE: 05/01/94

DESCRIPTION: Includes 7 new TAR signs, one new TAR transmitter, and retrofitting to existing signs with new controllers for flashing lights.

FACILITIES: I-95, I-70, I-270, I-68, US 50

STATUS: Construction complete

TOTAL BUDGET: \$395,970

FUNDING SOURCE: FHWA - CMAQ & STPG

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA

TEL: (410) 787-5869 FAX: (410) 582-9469

Maryland State Highway Administration

Travelers Advisory Radio - Existing

LOCATION: Maryland, statewide

CONTRACTOR: Various

BEGIN DATE: 01/01/89

END DATE:

OPER. DATE:

DESCRIPTION: 25 existing permanent TAR transmitters.

FACILITIES: I-95, I-495, I-695, I-70, I-270, MD 295

STATUS: Operational

TOTAL BUDGET: \$375,000

FUNDING SOURCE: MSHA

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Gerrit Veenhof - Assistant Communications Officer
TEL: (410) 333-7519 FAX: (410) 333-4999

Maryland State Highway Administration

TSM Planning

LOCATION: Maryland

CONTRACTOR: Edwards and Kelcey

BEGIN DATE: 05/01/94

END DATE: 05/01/97

OPER. DATE: 05/01/94

DESCRIPTION: Functional planning for traffic systems management technology implementation.

FACILITIES: Statewide

STATUS: Consultant providing planning and development support including fiber optics system integration, standards and typicals

TOTAL BUDGET: \$1,000,000

FUNDING SOURCE: FHWA

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

CONTACT: Bernie McNeilley - Edwards & Kelcey
TEL: (201) 267-0555 FAX: (201) 267-3555

Maryland State Highway Administration

Variable Message Signs

LOCATION: Montgomery County, Maryland

CONTRACTOR: Enterprise Electric

BEGIN DATE: 07/01/93

END DATE: 03/01/95

OPER. DATE: 04/01/95

DESCRIPTION: 4 new VMS at the 1-495/I-270 interchanges.

FACILITIES: 1-495/I-270 interchanges

STATUS: Operational

TOTAL BUDGET: \$1,075,350

FUNDING SOURCE: Federal - CMAQ

CONTACT: John Young - Chief, Advanced Systems Design, MSHA

TEL: (410) 787-5869 FAX: (410) 553-6399

Maryland State Highway Administration

Variable Message Signs

LOCATION: Maryland, statewide

CONTRACTOR: JHK & Associates (design)

BEGIN DATE: 01/01/95

END DATE: 08/01/96

OPER. DATE: 09/01/96

DESCRIPTION: 8 new VMS- hybrid flip disk/fiber optic.

FACILITIES: I-95, I-695

STATUS: Project bid, award pending

TOTAL BUDGET: \$2,215,000

FUNDING SOURCE: Not yet funded for construction

CONTACT: John Young - Chief, Advanced Systems Design, MSHA
TEL: (410) 787-5869 FAX: (410) 553-6399

CONTACT: Jeff Randall - JHK
TEL: (410) 825-5414 FAX: (410) 825-5415

Maryland State Highway Administration

Variable Message Signs - Existing

LOCATION: Maryland, statewide

CONTRACTOR: various

BEGIN DATE: 01/01/89

END DATE:

OPER. DATE:

DESCRIPTION: 29 existing permanent VMS currently operational.

FACILITIES: I-95, I-495, I-695, I-70, and MD 295

STATUS: Operational

TOTAL BUDGET: \$5,800,000

FUNDING SOURCE: FHWA

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems
Division, MSHA

TEL: (410) 787-5804 FAX: (410) 582-9469

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA

TEL: (410) 787-5869 FAX: (410) 553-6399

Maryland State Highway Administration

VMS Retrofit

LOCATION: Maryland/Virginia border - Wilson Bridge approach

CONTRACTOR: Alcatel Contracting

BEGIN DATE: 08/01/94

END DATE: 08/01/96

OPER. DATE: 09/01/96

DESCRIPTION: Retrofit 4 existing VMS with fiber optic hardware.

FACILITIES: I-95, I-295

STATUS: Contract awarded

TOTAL BUDGET: \$550,000

FUNDING SOURCE: Federal - CMAQ

CONTACT: John Young - Chief, Traffic Systems Design Section, MSHA

TEL: (410) 787-5869 FAX: (410) 553-6399

Maryland State Highway Administration, Maryland State Police

Traffic Operation Centers

LOCATION: Maryland

CONTRACTOR: None

BEGIN DATE: 01/01/89

END DATE:

OPER. DATE:

DESCRIPTION: Three local Traffic Operation Centers currently operating.

FACILITIES: Baltimore and Washington Metropolitan areas

STATUS: Operational

TOTAL BUDGET: Not available

FUNDING SOURCE: State

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA

TEL: (410) 787-5889 FAX: (410) 582-9469

CONTACT: Lee McMichael - SOC Manager

TEL: (410) 582-5610 FAX: (410) 582-9880

Maryland Transportation Authority

Baltimore Harbor Tunnel

LOCATION: Maryland

CONTRACTOR: Enterprise Electric

BEGIN DATE: 02/01/96

END DATE: 02/01/96

OPER. DATE: 02/01/97

DESCRIPTION: Install fiber optic tunnel approach land control system. MdTA
Contact No. HT 797-000-002

FACILITIES: Baltimore Harbor Tunnel

STATUS: Award 1/96

TOTAL BUDGET: \$2,300,000

FUNDING SOURCE: MdTA

CONTACT: Bob Jordan

TEL: (410) 288-8473 FAX: (410) 288-8475

Maryland Transportation Authority

Baltimore Harbor Tunnel Thruway

LOCATION: Maryland

CONTRACTOR: Enterprise Electric

BEGIN DATE: 05/01/94

END DATE: 12/01/95

OPER. DATE: 01/01/96

DESCRIPTION: Install twelve (12) 24 character fiber/flip VMS sign at the entrances to the Baltimore Harbor Tunnel Thruway. MdTA Contract No. HT 610-000-002

FACILITIES: Baltimore Harbor Tunnel Thruway

STATUS: Testing

TOTAL BUDGET: \$750,000

FUNDING SOURCE: MdTA

CONTACT: Ron Smith

TEL: (410) 288-8484 FAX: (410) 288-8475

Maryland Transportation Authority

CCTV Cameras at Oriole Park

LOCATION: Maryland

CONTRACTOR: Computech

BEGIN DATE: 01/01/95

END DATE: 03/01/95

OPER. DATE: 04/01/95

DESCRIPTION: Install three (3) CCTV cameras to monitor Oriole Park traffic.
MdTA Contract No. FT 779-000-006

FACILITIES: Ft. McHenry Tunnel

STATUS: Operational

TOTAL BUDGET: \$57,000

FUNDING SOURCE: MdTA

CONTACT: Bob Jordan

TEL: (410) 288-8473 FAX: (410) 288-8475

Maryland Transportation Authority

ETTM on the Thomas J. Hatem Memorial Bridge

LOCATION: Maryland

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Advanced toll collection accounts for 110,000 tags -- with over 16,000 daily transactions amounting to 80 percent of all toll transactions.

FACILITIES: Thomas J. Hatem Memorial Bridge

STATUS: In Operation

TOTAL BUDGET:

FUNDING SOURCE: MdTA

CONTACT: Thomas Fallon
TEL: (410) 354-8664 FAX: (410) 354-8694

CONTACT: David Williams
TEL: (410) 575-6651 FAX: (410) 642-6750

Maryland Transportation Authority

Ft. McHenry Tunnel

LOCATION: Maryland

CONTRACTOR: Enterprise Electric

BEGIN DATE: 02/01/94

END DATE: 09/01/95

OPER. DATE: 09/01/95

DESCRIPTION: Upgrade existing VMS signs to fiber optic (in Ft. McHenry Tunnel). MdTA Contract No. FT 620-000-002

FACILITIES: Ft. McHenry Tunnel

STATUS: Under Construction

TOTAL BUDGET: \$835,000

FUNDING SOURCE: MdTA

CONTACT: Bob Jordan

TEL: (410) 288-8473 FAX: (410) 288-8475

Maryland Transportation Authority

Ft. McHenry Tunnel Approach

LOCATION: Maryland

CONTRACTOR: Matriz Media/Mk IV

BEGIN DATE: 07/01/95

END DATE: 07/01/96

OPER. DATE: 07/01/96

DESCRIPTION: Upgrade existing VMS signs to fiber optic (Ft. McHenry Tunnel approach)

FACILITIES: Ft. McHenry Tunnel

STATUS: Awarded

TOTAL BUDGET: \$1,200,000

FUNDING SOURCE: MdTA

CONTACT: Bob Jordan

TEL: (410) 288-8473 FAX: (410) 288-8475

Maryland Transportation Authority

VMS - Bridges/Highway

LOCATION: Maryland

CONTRACTOR: Alcatel

BEGIN DATE: 04/17/95

END DATE: 06/01/96

OPER. DATE: 06/01/96

DESCRIPTION: Installation of three (3) 63 character fiber/flip VMS with traffic detectors. Installation of six (6) portable/permanent pads with power and communication. MdTA Contract No. MA 727-000-002

FACILITIES: John F. Kennedy Memorial Highway Thomas J. Hatem Bridge
William Preston Lane Memorial Bridge

STATUS: Under construction

TOTAL BUDGET: \$840,000

FUNDING SOURCE: MdTA

CONTACT: Ron Smith

TEL: (410) 288-8484 FAX: (410) 288-8475

Maryland Transportation Authority

VMS - Highway/Thruway

LOCATION: Maryland

CONTRACTOR: Apex Contracting

BEGIN DATE: 01/01/96

END DATE: 01/01/97

OPER. DATE: 01/01/97

DESCRIPTION: Installation of ten (10) 63 character fiber/flip VMS w/traffic detection. Installation of two (2) portable/permanent VMS pads. MdTA Contract No. MA 729-000-002

FACILITIES: John F. Kennedy Memorial Highway Baltimore Harbor Tunnel Thruway

STATUS: 1/96 NTP Anticipated

TOTAL BUDGET: \$1,800,000

FUNDING SOURCE: MdTA

CONTACT: Ron Smith

TEL: (410) 288-8484 FAX: (410) 288-8475

Maryland Transportation Authority

VMS - Highway/Thruway

LOCATION: Maryland

CONTRACTOR: Apex Contracting

BEGIN DATE: 04/17/95

END DATE: 06/01/97

OPER. DATE: 06/01/97

DESCRIPTION: Installation of seven (7) 63 character fiber/flip VMS w/traffic detectors. MdTA Contract No. MA 278-000-002

FACILITIES: John F. Kennedy Memorial Highway Baltimore Harbor Tunnel Thruway

STATUS: Under construction

TOTAL BUDGET: \$1,200,000

FUNDING SOURCE: MdTA

CONTACT: Ron Smith

TEL: (410) 288-8484 FAX: (410) 288-8475

Maryland Transportation Authority
William Preston Lane Memorial Bridge

LOCATION: Maryland

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 06/01/96

DESCRIPTION: Installation of surveillance cameras.

FACILITIES: William Preston Lane Memorial Bridge, US 50 / US 301

STATUS: Preliminary design.

TOTAL BUDGET: \$800,000

FUNDING SOURCE: MdTA

CONTACT: Robert Jordan

TEL: (410) 288-8473 FAX: (410) 288-8475

Massachusetts Highway Department
I-93 Integrated Motorist Information and Traffic Control System

LOCATION: Massachusetts

CONTRACTOR: Allied Signal with Louis Berger and Viggan

BEGIN DATE: 08/01/95

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of the I-93 Integrated Motorist Information and Traffic Control System Operational Test along the I-93 Corridor in Boston, Cambridge, Somerville and Medford. Includes integration of detector and surveillance technologies; VMS and travelers advisories; with surface street network and parking for public transportation.

FACILITIES: I-93 Corridor in Boston, Cambridge, Somerville and Medford.

STATUS: Under design

TOTAL BUDGET: \$2,900,000

FUNDING SOURCE: FHWA - \$2,300,000; State - \$600,000

CONTACT: Michael Costa - Director, ITS Programs, Massachusetts Highway Department

TEL: (617) 973-7315 FAX: (617) 973-8037

Massachusetts Highway Department

I-93 Southeast Expressway Contraflow/HOV ITS System

LOCATION: Boston, Massachusetts

CONTRACTOR: PBFI

BEGIN DATE: 01/01/94

END DATE: 04/01/95

OPER. DATE:

DESCRIPTION: Planning, design and systems engineering services for the Southeast Expressway Contraflow/HOV Lane in Boston. The project involves an ITS system for incident detection, verification and response on a six mile HOV lane located south of the Boston CBD. System components are loop detectors, radar detectors, CCTV, Lane Control Signals, VMS, and a Satellite Control Center.

FACILITIES: I-93

STATUS:

TOTAL BUDGET: \$5,000,000 (\$350,000 PBFI)

FUNDING SOURCE:

Massachusetts Highway Department

ITS Recreational Feasibility Study

LOCATION: Cape Cod, Massachusetts

CONTRACTOR: Farradyne Systems, Inc.

BEGIN DATE: 01/01/94

END DATE: 09/01/95

OPER. DATE:

DESCRIPTION: Feasibility study for the application of ITS to meet the needs of recreational travelers on Cape Cod. The study developed ideas for operational tests and deployment project proposals following the FHWA EDP planning process for ITS.

FACILITIES:

STATUS: Completed

TOTAL BUDGET: \$100,000

FUNDING SOURCE: FHWA

CONTACT: Susan Pommrehn - Cape Cod Commission

TEL: (508) 362-3828

FAX: (508) 362-3136

Massachusetts Highway Department

ITS Strategic Deployment Plan for Metropolitan Boston

LOCATION: Boston metro area

CONTRACTOR: JHK & Associates

BEGIN DATE: 12/24/92

END DATE: 12/31/93

OPER. DATE:

DESCRIPTION: Short and long term plans for an area-wide ITS program for Metropolitan Boston region, including freeway management system and integration of the central artery and tunnel control system.

FACILITIES:

STATUS: Project completed. State implementing recommendations

TOTAL BUDGET: \$430,000

FUNDING SOURCE: \$360,000 from FHWA

CONTACT: Stephen L. Pepin - ITS Planning Coordinator, Bureau of Transportation Planning & Development

TEL: (617) 973-8051 FAX: (617) 973-8035

CONTACT: Jonathan McDade - Urban Mobility Specialist, FHWA, Albany, NY

TEL: (518) 431-4224 ext. 254 FAX: (518) 472-4242

Massachusetts Highway Department

Motorist Assistance Patrol

LOCATION: Massachusetts

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 01/01/94

END DATE: 01/01/96

OPER. DATE:

DESCRIPTION: Motorist assistance patrol during peak periods. Program is comprised of 20 vehicles, 16 vans and 4 tow trucks, patrolling 20 routes, predominately in Eastern Massachusetts on heavily traveled freeway segments.

FACILITIES:

STATUS:

TOTAL BUDGET: \$3,500,000 over two years

FUNDING SOURCE:

CONTACT: Stephen Chandler - Incident Response Command Officer, MHD

TEL: (617) 973-8050 FAX: (617) 973-8037

Massachusetts Highway Department

Operational Design of Central Artery/Third Harbor Tunnel

LOCATION: Boston, Suffolk County, MA

CONTRACTOR: Bechtel/Parsons Brinkerhoff

BEGIN DATE: 09/01/93

END DATE: 09/01/04

OPER. DATE: 12/15/95

DESCRIPTION: Design of HOV strategies, integrated control systems, incident mgmt, mainline/ramp metering, traffic surveillance and control, ETTM, communications, operations and control, and facilities control for 110 lane miles of new highway in metro Boston, 37 in tunnel. IVHS elements account for \$125m of \$6.4b overall.

FACILITIES: I-93, I-90 (Central Artery, Third Harbor Tunnel)

STATUS: Construction underway

TOTAL BUDGET: \$110,000,000

FUNDING SOURCE: FHWA and Mass.

CONTACT: Sergiu F. Luchian - Projectwide Engineer, Massachusetts Highway Department

TEL: (617) 951-6146 FAX: (617) 439-0672

Massachusetts Highway Department

SE Expressway HOV Lane

LOCATION: Boston Metropolitan Area

CONTRACTOR: Bechtel/Parsons Brinkerhoff

BEGIN DATE:

END DATE:

OPER. DATE: 11/01/95

DESCRIPTION: Installation of detectors, cameras and VMS in conjunction with reversible HOV lane on I-93 south of Boston.

FACILITIES:

STATUS: Operational

TOTAL BUDGET: ITS component - \$1,800,000

FUNDING SOURCE:

CONTACT: Michael Costa - Director, ITS Programs, Massachusetts Highway Department

TEL: (617) 973-7315 FAX: (617) 973-8037

Massachusetts Highway Department

***SP Incident Management Program**

LOCATION: Massachusetts - Statewide

CONTRACTOR:

BEGIN DATE: 01/01/88

END DATE:

OPER. DATE:

DESCRIPTION: Special *SP number for cellular phone toll-free incident reporting; installation of milemarkers; construction of communications center linking all emergency radio; State Police incident command system; quick clearance policy; State towing policy.

FACILITIES: Statewide

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Lt. Col. Thomas Kennedy - Deputy Superintendent, MA State Police

TEL: (508) 820-2344 FAX:

Massachusetts Highway Department

Springfield ITS Early Deployment Plan

LOCATION: Metropolitan Springfield Region, Massachusetts

CONTRACTOR:

BEGIN DATE: 03/01/96

END DATE:

OPER. DATE:

DESCRIPTION: Development of an ITS Strategic Deployment Plan for the greater Springfield/Pioneer Valley region of Massachusetts.

FACILITIES:

STATUS

TOTAL BUDGET: \$400,000

FUNDING SOURCE: FHWA - 80%; State - 30%

CONTACT: Stephen L. Pepin - ITS Planning Coordinator, Bureau of Transportation Planning & Development

TEL: (617) 973-8051 FAX: (617) 973-8035

CONTACT: Jonathan McDade - Urban Mobility Specialist, FHWA, Albany, NY

TEL: (518) 431-4224 ext. 254 FAX: (518) 472-4242

Massachusetts Highway Department, Boston Metropolitan Area Planning Council

Boston Smart Traveler

LOCATION: Boston metro area/Eastern Massachusetts

CONTRACTOR: Smart Route Systems (Cambridge, MA)

BEGIN DATE: 10/01/92

END DATE: 02/28/98

OPER. DATE: 01/13/93

DESCRIPTION: ATIS provides motorists in the area east of I-495 with real-time traffic and transit information via telephone. Data sources include live and slow scan cameras, police *SP program, mobile phone probes, two-way radio probes, Samaritan vans, and aircraft. Free call on cellular telephone by dialing *1; free call on regular telephone lines by dialing 374-1234.

FACILITIES: All freeways and expressways within and including I-495 and other selected principle arterials

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: FHWA - \$6,500,000; State - \$1,200,000; Private - \$6,506,696 (over 5 years)

CONTACT: Stephen L. Pepin - ITS Planning Coordinator, Bureau of Transportation Planning and Development
TEL: (617) 973-8051 FAX: (617) 973-8035

CONTACT: Jonathan McDade - Urban Mobility Specialist, FHWA Region 1, Albany, NY
TEL: (518) 431-4224 ext. 254 FAX: (518) 472-4242

Massachusetts Turnpike Authority

Electronic Visitor Information System

LOCATION: Massachusetts

CONTRACTOR: Plangraphics, Inc. of Frankfurt, KY

BEGIN DATE:

END DATE:

OPER.DATE:

DESCRIPTION: Will provide information at turnpike visitor info. centers on historic attractions, museums, lodgings and sporting events, and directions to cities and towns.

FACILITIES: Massachusetts Turnpike

STATUS: Consultant selection underway

TOTAL BUDGET:

FUNDING SOURCE:

Massachusetts Turnpike Authority

ETTM

LOCATION: Massachusetts

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and implementation of a comprehensive ETTM system on the Massachusetts Turnpike and the Callahan and Sumner Tunnels.

FACILITIES: Massachusetts Turnpike, Callahan Tunnel, Sumner Tunnel

STATUS: Design underway

TOTAL BUDGET:

FUNDING SOURCE:

Montgomery County (MD) DOT

Advanced Transportation Management System

LOCATION: Montgomery County, MD

CONTRACTOR: Automatic Signal/Eagle Signal; RGA, Inc.; Fairchild Defense

BEGIN DATE: 07/01/92

END DATE: 06/01/95

OPER. DATE: 01/01/95

DESCRIPTION: Using 300 vehicle detectors and other traffic and incident status information, the centralized control system will control and monitor 1500 traffic intersections and 10 reversible lane systems providing responsive control, preemption, and integration with interstates.

FACILITIES: Bethesda/Rockville area of County (Phase I); ultimately County-wide.

STATUS: Operational (partially); Phase I complete early 95

TOTAL BUDGET: \$2,050,000

FUNDING SOURCE: County (\$1.75m) and FHWA (\$295,000)

CONTACT: Gene Donaldson - Montgomery Co. DOT
TEL: (301) 217-2190 FAX: (301) 217-2637

CONTACT: Steve Kuciemba - Chief, Intelligent Transportation Systems Division, MSHA
TEL: (410) 787-5884 FAX: (410) 582-9469

Nassau County (NY)

Computerized Signal System

LOCATION: Nassau County, New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Central computer control of 492 signals primarily on arterials.
Operations center located in Mineola.

FACILITIES:

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

New Hampshire Department of Resources and Economic Development

Lincoln-Franconia Highway Advisory Radio

LOCATION: Lincoln-Franconia, New Hampshire

CONTRACTOR:

BEGIN DATE: 07/01/93

END DATE: 11/01/93

OPER. DATE: 11/01/93

DESCRIPTION: Operation of two highway advisory radio stations on Interstate 93, Franconia Notch Parkway.

FACILITIES: I-93, Franconia Notch Parkway

STATUS: Operational

TOTAL BUDGET: \$75,000

FUNDING SOURCE: Federal and State

CONTACT: Director of Parks, NH Dept. of Resources and Economic Dev.
TEL: (603) 271-3255 FAX: (603) 271-2629

CONTACT: Kathleen Laffey - FHWA Division Administrator
TEL: (603) 225-1605 FAX: (603) 225-1602

New Hampshire DOT

Concord WIM and VCS; ACI-393-2(120)42 Project No. 10254

LOCATION: Concord, New Hampshire

CONTRACTOR: IRD, Inc.

BEGIN DATE: 01/01/87

END DATE:

OPER. DATE: 12/01/91

DESCRIPTION: Operation of weigh-in-motion and vehicle classification systems on I-393 in Concord, New Hampshire.

FACILITIES: I-393, Concord, N.H.

STATUS: Operational

TOTAL BUDGET: \$10,000 per year

FUNDING SOURCE: Federal and State

CONTACT: Subramanian Sharma - Transportation Planner, NHDOT
TEL: (603) 271-1625 FAX: (603) 271-3914

CONTACT: Kathleen Laffey - FHWA Division Administrator
TEL: (603) 225-1605 FAX: (603) 225-1602

New Hampshire DOT

Lincoln-Franconia IM-93-3 (188)106 Project No. 11773

LOCATION: Lincoln-Franconia, New Hampshire

CONTRACTOR J.A. MacDonald, Inc. (Lyndonville, Vermont)

BEGIN DATE: 07/01/93

END DATE:

OPER. DATE: 11/01/93

DESCRIPTION: Operation of two stationary and one portable variable message signs on the Franconia Notch Parkway and I-93.

FACILITIES: I-93, Franconia Notch Parkway

STATUS: Operational

TOTAL BUDGET: \$162,000

FUNDING SOURCE: Federal and State

CONTACT: John Ross - District Engineer, District One New Hampshire DOT

TEL: (603) 788-4641 FAX: (603) 788-4260

New Hampshire DOT

Nashua Highway Advisory Radio Stations Project No. 10624H

LOCATION: Nashua, NH and Tyngsboro, MA

CONTRACTOR: Information Station Specialists Zealand, MO

BEGIN DATE: 07/01/90

END DATE:

OPER. DATE: 07/01/90

DESCRIPTION: Operation of two highway advisory radio stations on U.S. Route 3, Tyngsboro, MA and Central Turnpike in Nashua, NH.

FACILITIES: Central Turnpike, Nashua, N.H. Route 3, Tyngsboro, MA

STATUS: Operational

TOTAL BUDGET: \$38,100 (construct/install), \$432 annual

FUNDING SOURCE: Turnpike toll revenue

CONTACT: Public Information Officer Public Information Office New Hampshire DOT

TEL: (603) 271-6495 FAX: (603) 271-3914

New Jersey DOT

Burlington County Truck (CVO) Information System

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: CB HAR in the vicinity of New Jersey Turnpike Interchange #7.

FACILITIES: New Jersey Turnpike Interchange #7

STATUS: Project has not moved forward. Recommend deleting.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Matt Edelman - TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

New Jersey DOT
Camden Area Service Patrol

LOCATION: Camden, New Jersey

CONTRACTOR:

BEGIN DATE: 01/01/94

END DATE:

OPER. DATE:

DESCRIPTION: First Stage Program for Total Camden Area In response to incidents, service patrol vehicles will contact police, towing services and traffic operations center to help divert traffic, push stalled vehicles from travel lanes, and offer minor emergency repairs.

FACILITIES: I-76, I-295, I-676, NJ-42, NJ-55.

STATUS: Active

TOTAL BUDGET: \$1,200,000

FUNDING SOURCE: FHWA

CONTACT: Patricia Ott - Principal Engineer Traffic Operations South

TEL: (609) 866-4980 FAX: (609) 866-0517

New Jersey DOT

I-280 Motorist Information and Incident Management System

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Call boxes are operational. Consider addition of weather detection. Proposed Emergency Service Patrol (ESP) expansion to include I-280 from I-80 to New Jersey Turnpike.

FACILITIES: I-280 from I-80 to New Jersey Turnpike

STATUS: Call boxes are operational from I-80 to New Jersey Turnpike.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Jean Servideo -

TEL: (201) 648-3038

FAX: (201) 648-7010

New Jersey DOT

I-287 HOV Incident Management and Motorist Information System

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Possible expansion of MAGIC III scope.

FACILITIES: I-287 from I-78 to I-80

STATUS: Design proposed

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey DOT

I-80 HOV Incident Management and Motorist Information System

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION:

FACILITIES: I-80 from Route 15 to I-287

STATUS: Design proposed

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey DOT

MAGIC (Metropolitan Area Guidance Information Center) - Construction

LOCATION: Morris, Essex, Passaic and Bergen Counties, NJ

CONTRACTOR: T.H. Green Electric Co., Inc., 235 Metro Park, P. O. Box 9911
Rochester, NY 14623

BEGIN DATE: 09/01/93

END DATE: 03/12/97

OPER. DATE: 06/13/96

DESCRIPTION: Traffic surveillance and control system encompassing a nine-county region in northern New Jersey. The system is designed to divert motorists from congested or emergency related areas to alternate routes. All activities will be coordinated with TRANSCOM.

FACILITIES: Routes 80, 46, 4, 3,280 and 17

STATUS: Construction underway

TOTAL BUDGET: \$32,020,000

FUNDING SOURCE: FHWA

CONTACT: Richard Dube - New Jersey DOT
TEL: (609) 530-2448 FAX:

CONTACT: Jonathan McDade - FHWA Region 1
TEL: (518) 472-4253 FAX: (518) 472-4242

New Jersey DOT

MAGIC (Metropolitan Area Guidance Information Center) - Design

LOCATION: Northern New Jersey

CONTRACTOR: Edwards and Kelcey/PBFI

BEGIN DATE: 09/01/93

END DATE: 03/12/97

OPER. DATE: 06/13/96

DESCRIPTION: Traffic surveillance and control system encompassing a nine-county region in northern New Jersey. The system is designed to divert motorists from congested or emergency related areas to alternate routes. All activities will be coordinated with TRANSCOM.

FACILITIES: Northern New Jersey

STATUS: Design complete

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Richard Dube - New Jersey DOT
TEL: (609) 530-2448 FAX:

CONTACT: Jonathan McDade - FHWA Region 1
TEL: (518) 472-4253 FAX: (518) 472-4242

New Jersey DOT

MAGIC Phase 1

LOCATION: Morris, Essex, Passaic, and Bergen Counties, NJ

CONTRACTOR: T. H. Green Electric Co., Inc., 235 Metro Park, P.O. Box 9911,
Rochester, NY 14623

BEGIN DATE: 09/01/93

END DATE: 03/12/97

OPER. DATE: 06/13/96

DESCRIPTION: Phase 1 of a system of surveillance and traffic control consisting
of a computerized detection element combined with a
comprehensive motorists information element. The system will
be designed to divert motorists from traffic congested areas.

FACILITIES: Routes 80, 46, 4, 3, 280, & 17

STATUS: System installation, integration and testing complete by mid
1996.

TOTAL BUDGET: \$32,020,000

FUNDING SOURCE: FHWA

CONTACT: Richard Dube - New Jersey DOT
TEL: (609) 530-2448 FAX:

CONTACT: Jonathan McDade - FHWA Region 1
TEL: (518) 472-4253 FAX:

New Jersey DOT

MAGIC Phase 2

LOCATION: Essex, Somerset, and Union Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: A system of surveillance and traffic control consisting of a sophisticated, computerized detection element combined with a comprehensive motorist information element. The system will be designed to divert motorists from traffic congested areas.

FACILITIES: Route 78 Corridor

STATUS:

TOTAL BUDGET: \$23,720,000

FUNDING SOURCE:

CONTACT: Richard Dube - New Jersey DOT
TEL: (609) 530-2448 FAX:

CONTACT: Jonathan McDade - FHWA Region 1
TEL: (518) 472-4253 FAX:

New Jersey DOT

MAGIC Phase 3

LOCATION: New Jersey

CONTRACTOR: None at this time.

BEGIN DATE: 09/01/97

END DATE:

OPER. DATE:

DESCRIPTION: Integration of different closed loop systems into unified network. Will provide signal systems utilizing advanced traffic control software and video surveillance.

FACILITIES: New Jersey

STATUS: Design scope being revised.

TOTAL BUDGET: \$6,000,000

FUNDING SOURCE: \$6,000,000 FHWA

CONTACT: R. Dube - New Jersey DOT
TEL: (609) 530-2448 FAX: (609) 530-4567

CONTACT: Jonathan McDade - FHWA Region 1
TEL: (518) 472-4253 FAX: (518) 472-4242

New Jersey DOT
MAGIC Phase 3 (Part 1)

LOCATION: Bergen, Passiac, and Morris Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of the MAGIC system on the basically north-south corridor.

FACILITIES: I-287 north of I-80

STATUS:

TOTAL BUDGET:

FUNDINGSOURCE:

CONTACT: Richard Dube - New Jersey DOT
TEL: (609) 530-2448 FAX:

CONTACT: Jonathan McDade - FHWA Region 1
TEL: (518) 472-4253 FAX:

New Jersey DOT
MAGIC Phase 3 (Part 2)

LOCATION: Bergen, Passaic, Essex, Union, Middlesex, Somerset, Morris, and Monmouth Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of the MAGIC system on the basically north-south corridor.

FACILITIES: I-287, NJ Route 1, NJ Route 9, NJ Turnpike, Garden State Parkway

STATUS:

TOTAL BUDGET: \$40,420,000

FUNDING SOURCE:

CONTACT: Richard Dube - New Jersey DOT

TEL: (609) 530-2448 FAX:

CONTACT: Jonathan McDade - FHWA Region 1

TEL: (518) 472-4253 FAX:

New Jersey DOT
Route 1 Motorist Information System

LOCATION: New Jersey

CONTRACTOR: In-house

BEGIN DATE: 01/01/92

END DATE: 01/01/99

OPER. DATE: 01/01/92

DESCRIPTION: To initially address Route 1 construction project. Fax distribution network; highway advisory radio.

FACILITIES: Route 1

STATUS: Active

TOTAL BUDGET:

FUNDING SOURCE: Construction Mitigation Funds

CONTACT: Bill Kingsland - NJDOT - Traffic Operations S.

TEL: (609) 866-4980 FAX: (609) 866-0517

New Jersey DOT

Route 15/206/23 Rural/Recreational IVHS Demonstration Project

LOCATION: Northern New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION:

FACILITIES: Route 15, Route 206, Route 23

STATUS: Project has not moved forward. Recommend deleting.

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey DOT

Route 18 & 73 Signal System Computerization

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Will provide coordinated signal systems on Route 18 and Route 73 utilizing advanced traffic control software and video surveillance.

FACILITIES: Route 18 and Route 73

STATUS: Route 73 is 90% complete and Route 18 is complete with the **exception of data gathering for timing plans.**

TOTAL BUDGET: \$10,200,000

FUNDING SOURCE: FHWA (6,000,000) and state

New Jersey DOT

Route 4 Traffic Surveillance System

LOCATION: New Jersey

CONTRACTOR: Allen Electric Co., Inc., 409 Minnisink Road, P. O. Box 287,
Totowa, NJ 07512

BEGIN DATE: 04/01/92

END DATE: 09/01/94

OPER. DATE: 09/01/94

DESCRIPTION: Video surveillance and highway advisory radio installed to verify
incidents and notify motorists.

FACILITIES: Route 4 from Route 17 to Route 208

STATUS: Complete.

TOTAL BUDGET: \$500,000

FUNDING SOURCE: FHWA (Transcom)

CONTACT: R. Dube - NJDOT
TEL: (609) 530-2448 FAX: (609) 530-4567

CONTACT: Jonathan McDade - FHWA Region I
TEL: (518) 472-4253 FAX:

New Jersey DOT

Statewide Traffic and Incident Management Master Plan

LOCATION: Southern New Jersey

CONTRACTOR: Parsons Brinkerhoff, Dunn Engineering Associates

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: The object of this project was to develop an ITS master plan for Southern New Jersey, review all existing and planned traffic control projects and develop a comprehensive plan for statewide improvements of traffic control and communication architecture systems.

FACILITIES: Statewide

STATUS: Draft final report is complete.

TOTAL BUDGET: \$170,000 (PBFI)

FUNDING SOURCE: FHWA/State TTF

CONTACT: J. Pivovar

TEL: (609) 530-2873 FAX: (609) 530-2909

New Jersey DOT

TOC South Traffic Conditions Information System

LOCATION: Southern New Jersey

CONTRACTOR: In-house

BEGIN DATE: 07/01/95

END DATE: 07/01/96

OPER. DATE:

DESCRIPTION: Cellular call-in system - feasibility study.

FACILITIES:

STATUS: Active

TOTAL BUDGET: \$50,000

FUNDING SOURCE: CMAQ

CONTACT: Kurt Aufschneider

TEL: (609) 866-4980 FAX: (609) 866-0517

New Jersey DOT

Traffic Operations Center North

LOCATION: Northern New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Proposed TOC in Newark at the new NJDOT Region II facility between Routes 19, 22 and Interstate 78 to oversee direct operations of MAGIC projects and closed loop traffic signal systems on several state routes. Progress on TOC is contingent on new Region II feasibility progress. Interim TOC operating in old Region II facility.

FACILITIES: Interim TOC in old Region II facility in Newark.

STATUS: Design proposed as part of total new Region II facility.

TOTAL BUDGET: \$57,096,000

FUNDING SOURCE:

CONTACT: Jean Servideo

TEL: (201) 648-3038 FAX: (201) 648-7010

New Jersey DOT
Traffic Operations Center South

LOCATION: New Jersey

CONTRACTOR: In-house

BEGIN DATE: 07/01/96

END DATE: 07/01/97

OPER. DATE: 07/01/96

DESCRIPTION: 16 hour staffing of traffic operations center

FACILITIES:

STATUS: Operational

TOTAL BUDGET: \$800,000

FUNDING SOURCE:

CONTACT: Kurt Aufschneider

TEL: (609) 866-4980 FAX: (609) 866-0517

New Jersey DOT

Traffic Signal Contract #10

LOCATION: Mercer and Middlesex Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER.DATE:

DESCRIPTION: Interconnection and modification of 47 traffic signals on Route 1 in Mercer and Middlesex Counties. Will also include all required revisions to the underground and above-ground equipment in order to provide a closed loop interconnected system. Under design by F. R. Harris to be advertised Oct. 1995.

FACILITIES: Route 1 from Quaker Bridge Road to Garden State Parkway and Route 1 Business

STATUS:

TOTAL BUDGET: \$15,000,000 estimate

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #14

LOCATION: Morris, Bergen, and Passaic Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and construction of replacement of 47 existing conventional signals with computer-controlled installations.

FACILITIES: Routes 23 & 46

STATUS: Not an active project - on hold.

TOTAL BUDGET: \$20,886,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT

Traffic Signal Contract #15

LOCATION: Hudson, Essex, and Bergen Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Replacement of 66 existing conventional traffic signals with computer-controlled installations.

FACILITIES: Routes 1&9, 1&9T, 139, 169, and 440.

STATUS: Under design by Computran System. Advertising schedule not set until funding is established.

TOTAL BUDGET: \$20,360,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #16

LOCATION: Burlington, Camden, and Atlantic Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of computerized traffic signal systems for this group of three heavily-travelled South Jersey highways which will tie in with the Route 73 traffic signal project.

FACILITIES: Routes 70, 30, 38, & 73

STATUS: Under design by HNTB. Advertising schedule not set until funding is established.

TOTAL BUDGET: \$17,800,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #17%

LOCATION: New Jersey

CONTRACTOR: M.M.R. Technical Services, Inc., P. O. Box 8208, Somerville, NJ
08876

BEGIN DATE: 05/07/93

END DATE: 07/30/96

OPER. DATE: 04/30/96

DESCRIPTION: Traffic Signal Contract #17. Incident detection and surveillance.

FACILITIES: Route 73

STATUS: Active

TOTAL BUDGET: \$6,000,000

FUNDING SOURCE: FHWA

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New
Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT

Traffic Signal Contract #19

LOCATION: Monmouth County, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of a computerized traffic signal control system in Monmouth County regulating approximately 36 traffic signals.

FACILITIES: Route 36

STATUS: Under design by Orth Rogers. Advertising schedule not set until funding is established.

TOTAL BUDGET: \$12,810,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #20

LOCATION: Mercer and Somerset Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and construction of a computerized traffic control system along Route 206 in Mercer and Somerset Counties.

FACILITIES: Route 206

STATUS: Not an active project - on hold.

TOTAL BUDGET: \$9,670,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT

Traffic Signal Contract #24

LOCATION: Monmouth, Ocean, and Middlesex Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and construction of a computerized traffic control system along the Route 35 and Route 88 corridors, utilizing fiber optics to interconnect 81 traffic signals.

FACILITIES: Route 35 and Route 38

STATUS: Not an active project - on hold.

TOTAL BUDGET: \$19,375,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #25

LOCATION: Ocean County, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of a computerized traffic signal control system along the Route 37 corridor in Ocean County, utilizing fiber optics to interconnect 23 traffic signals.

FACILITIES: Route 37

STATUS: Not an active project - on hold.

TOTAL BUDGET:

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #26

LOCATION: Somerset and Union Counties, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of a computerized traffic control system along the Route 22 corridor in Somerset and Union Counties.

FACILITIES: Route 22

STATUS: Not an active project - on hold.

TOTAL BUDGET:

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #28

LOCATION: Atlantic County, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and construction of a computerized traffic control system along segments of various state routes in Atlantic County, utilizing fiber optics to interconnect 37 traffic signals.

FACILITIES: Routes 9, 30, & 40/322

STATUS: Not an active project - on hold.

TOTAL BUDGET: \$12,315,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT
Traffic Signal Contract #29

LOCATION: Union County, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and construction of a computerized traffic control system along the Route 439 corridor in Union County, utilizing fiber optics to interconnect 23 traffic signals.

FACILITIES: Route 439

STATUS: Not an active project - on hold.

TOTAL BUDGET: \$7,085,000

FUNDING SOURCE: FHWA, State

CONTACT: Roy Gustavson - Manager, Electrical Engineering Bureau, New Jersey DOT

TEL: (609) 530-2600 FAX: (609) 530-4567

New Jersey DOT

Trans-Hudson Motorist Information System

LOCATION: New Jersey, New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Use existing PANYNJ's (and others) HAR, VMS to better manage Trans-Hudson travel. This was an early deployment recommendation of the ITMS master plan.

FACILITIES: I-80, I-495, Route 3, Route 1, Route 9

STATUS: Project has not moved forward. Recommend deleting.

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey DOT

Transit Communication Link Development Initiative

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Will be included as part of RTIS being developed by Edwards & Kelcey in MAGIC CCM.

FACILITIES: I-80, Route 3, Newark area, Route 9

STATUS: Design proposed

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey DOT

Truck Weigh Station

LOCATION: Morris County, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Construction of one of five new weigh stations proposed for the interstate system, including weigh-in-motion and static scales.

FACILITIES: I-80

STATUS:

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey DOT

Use of OPAC Control Strategy for Arterial Traffic Control

LOCATION: Route 18, New Jersey

CONTRACTOR: E & K, PBFi

BEGIN DATE: 11/01/90

END DATE: 07/01/95

OPER. DATE:

DESCRIPTION: The State of New Jersey selected OPAC, an advanced traffic control system based on real-time adaptive control algorithm (referred to as Second Generation Control), for Route 18. The OPAC algorithm, which was developed by PBFi has been modified for the Rt. 18 project to provide Critical Intersection Control (CIC) and platoon based coordination. Early results indicate an 18% reduction in vehicle delays.

FACILITIES: Route 18

STATUS: Operational

TOTAL BUDGET: \$1,200,000 (\$721,000 PBFi)

FUNDING SOURCE:

CONTACT: Thomas Betten

TEL: (201) 963-4033 FAX:

**New Jersey DOT, DE River Port Authority,
Burlington Co. Bridge Co**

Bridge Crossing Motorist Information System

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Traffic Signal Contract #17 (out to bid). VMS to warn of bridge openings at the Tacony Palmyra and Betsy Ross Bridges. Direct connection with VMS from bridge deleted from T.S.C. #17.

FACILITIES: Tacony Palmyra Bridge, Betsy Ross Bridge

STATUS: Active

TOTALBUDGET:

FUNDING SOURCE:

New Jersey DOT, New Jersey Highway Authority

Early Action Traffic Information System

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Integration of ATIS-type strategies. Route 18 is under construction; Route 9 within one year.

FACILITIES: Route 18, Route 9, I-78

STATUS: Construction underway

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey DOT, Pennsylvania DOT, FHWA

Integrated Corridor Management

LOCATION: New Jersey, Pennsylvania

CONTRACTOR:

BEGIN DATE: 08/12/92

END DATE:

OPER. DATE:

DESCRIPTION: Project jointly pursued by NJDOT and PennDOT. Project concepts include a facility similar to TRANSCOM's, traffic information systems along key routes, and a study of overall traffic and incident management needs.

FACILITIES:

STATUS: underway

TOTAL BUDGET:

FUNDING SOURCE: \$6 mil. from FHWA through FY 92

CONTACT: Mike Halladay - FHWA

TEL: (202) 366-6503

FAX: (202) 366-2249

New Jersey Highway Authority

Automatic Traffic Monitoring and Sign Control System

LOCATION: New Jersey

CONTRACTOR: Farradyne Systems, Inc.

BEGIN DATE: 11/01/93

END DATE: 06/01/95

OPER. DATE:

DESCRIPTION: Between Raritan and Asbury Toll Plazas.

FACILITIES: Garden State Parkway

STATUS: Study almost complete.

TOTAL BUDGET:

FUNDING SOURCE: NJHA

CONTACT: Arnold Mercer - Systems Engineer, NJHA

TEL: (908) 442-8600 FAX: (908) 442-3624

New Jersey Highway Authority
Brookdale Transportation Center

LOCATION: Bloomfield, Essex County, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Study to expand commuter parking and locate a satellite transportation center.

FACILITIES:

STATUS: Planning proposed

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Charles McManus - Chief Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority

Driscoll Bridge Roadway Sensors

LOCATION: Middlesex County, New Jersey

CONTRACTOR: Travers Assoc.

BEGIN DATE: 10/01/93

END DATE: 06/01/94

OPER. DATE: 06/01/94

DESCRIPTION: Installation of roadway sensors on the Driscoll Bridge

FACILITIES: Driscoll Bridge, Garden State Parkway

STATUS: Design complete; Installation 98% complete. Awaiting final software modifications for roadway sensor/VMS interface.

TOTAL BUDGET: \$335,000

FUNDING SOURCE: NJHA

CONTACT: Richard Rash - - Principal Engineer, NJHA

TEL: (908) 442-8600 FAX:

CONTACT: K. Newman - Travers Associates

TEL: (201) 365-0510 FAX:

New Jersey Highway Authority

ETTM

LOCATION: New Jersey

CONTRACTOR: Parsons Brinckerhoff

BEGIN DATE: 11/01/95

END DATE: 03/01/96

OPER. DATE: 08/01/96

DESCRIPTION: Designed and developed specifications for generic intelligent lane controller (2070) with toll equipment lane control and communication capabilities. Developed performance specs for Plaza computers that are capable of processing ETTM data and existing collection data. The performance specifications define the hardware and establishes the requirements of the supplier to provide the new software and the integration with existing software of the New Jersey Highway Authority.

FACILITIES: Garden State Parkway

STATUS: Design complete

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Chris Fisher - Engineer, NJHA

TEL: (908) 442-8600

FAX: (908) 442-1480

CONTACT: Albert E. Schauffler - - Project Manager, Parsons Brinckerhoff

TEL: (609) 538-4300

FAX: (609) 538-4343

New Jersey Highway Authority

Fiber Optics

LOCATION: New Jersey

CONTRACTOR: Bell Atlantic

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Fiber Optic Conduit and Cable Installation, Raritan to New York State Line.

FACILITIES: Garden State Parkway

STATUS: Negotiations underway to modify agreement. Construction to be scheduled pending resolution of agreement negotiations.

TOTAL BUDGET: \$10,000,000 +/-

FUNDING SOURCE: NJHA

CONTACT: Richard Rash - - Principal Highway Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority

Fiber Optics

LOCATION: New Jersey

CONTRACTOR: F.R. Harris

BEGIN DATE: 12/01/97

END DATE: 05/01/99

OPER. DATE: 05/01/99

DESCRIPTION: Fiber optic cable and CCTV design and installation, Int. 80 to Raritan Toll Plaza

FACILITIES: Garden State Parkway, MP 80.0 to MP 125.8

STATUS: Project on hold. Phase II plans have been reviewed.

TOTAL BUDGET: \$15,000,000 +/-

FUNDING SOURCE: NJHA

CONTACT: Richard Rash - Principal Highway Engineer
TEL: (908) 442-8600 FAX:

CONTACT: Glen Kartalis/ F.R. Harris -
TEL: (908) 636-4990 FAX:

New Jersey Highway Authority

FM HAR Test

LOCATION: New Jersey

CONTRACTOR: Modulation Sciences

BEGIN DATE: 06/01/93

END DATE:

OPER. DATE:

DESCRIPTION: Low-power FM HAR test

FACILITIES: Garden State Parkway

STATUS: Design underway

TOTAL BUDGET: \$70,000

FUNDING SOURCE: NJHA

CONTACT: Arnold Mercer - Systems Engineer, NJHA
TEL: (908) 442-8600 FAX: (908) 442-3264

CONTACT: Eric Small - President, Modulation Sciences, Inc.
TEL: (908) 302-3090 FAX: (908) 302-0206

New Jersey Highway Authority

Garden State Art Center Variable Message Sign

LOCATION: Holmdel, Monmouth County, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: In addition to displaying Garden State Arts Center Messages, motorist information is also displayed. One sign northbound and one southbound.

FACILITIES:

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Jude Depko - Principal Traffic Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority

Garden State Parkway Loop Detectors

LOCATION: Northern New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Inductive loop detectors have been installed between Interchanges 129 and 136 on the Garden State Parkway for future use.

FACILITIES: Garden State Parkway

STATUS: Installation complete

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Jude Depko - Principal Traffic Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority

Herbertsville Bus and Truck Inspection Facility

LOCATION: Wall Township, Monmouth County, New Jersey

CONTRACTOR: Gannett Fleming

BEGIN DATE: 10/01/95

END DATE: 12/01/96

OPER. DATE: 01/01/97

DESCRIPTION: Bus and truck inspection facility to include weigh-in-motion, electronic emissions monitoring, and automated verification of inspection status via smartcards for purposes of providing mainline bypass to authorized vehicles.

FACILITIES: Milepost 94.6 Southbound, Garden State Parkway

STATUS: Design underway; Construction scheduled

TOTAL BUDGET: \$3,100,000

FUNDING SOURCE: CMAQ, NJHA

CONTACT: John Withers - Engineer, NJHA

TEL: (908) 442-8600 ext. 6499 FAX: (908) 293-1110

New Jersey Highway Authority

Interchange 91 Park and Ride Lots

LOCATION: Brick Township, Ocean County, New Jersey

CONTRACTOR:

BEGIN DATE: 08/01/95

END DATE: 07/01/96

OPER. DATE:

DESCRIPTION: Preliminary design to improve transit and park & ride Facilities including traffic signal upgrades.

FACILITIES: Garden State Parkway

STATUS: Study complete; preliminary design RFP being prepared.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Barbara Kleinert - Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority
Lane Control System, Union to Essex

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE: 12/01/95

END DATE: 12/01/96

OPER. DATE: 01/01/97

DESCRIPTION: Design and installation of Union to Essex lane control system.

FACILITIES: Garden State Parkway

STATUS: Design work proposed

TOTAL BUDGET:

FUNDING SOURCE:

New Jersey Highway Authority

Montvale Transportation Center

LOCATION: Boro of Montvale, Bergen County, New Jersey

CONTRACTOR: Paul W. Reilly

BEGIN DATE: 01/01/93

END DATE: 03/01/93

OPER. DATE: 04/01/93

DESCRIPTION: Montvale Transportation Center provides airport shuttle to and from Newark Airport, satellite airline ticket office, regional information, long term parking and transportation and business services.

FACILITIES: Garden State Parkway

STATUS: Operational

TOTAL BUDGET: \$160,000

FUNDING SOURCE: Private Vendors

CONTACT: David Ryan - NJHA

TEL: (908) 442-8600 FAX: (908) 293-1106

New Jersey Highway Authority

Ramp Metering

LOCATION: New Jersey

CONTRACTOR: Vollmer Associates

BEGIN DATE: 11/01/93

END DATE: 12/01/95

OPER. DATE:

DESCRIPTION: Study of Ramp Metering between Asbury and Hillsdale Toll
Plazas

FACILITIES: Garden State Parkway

STATUS: Study underway. Draft study report submitted 05/95.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Cindy Urbanik - Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority

Roadway Sensors

LOCATION: New Jersey

CONTRACTOR: Travers Assoc.

BEGIN DATE: 05/01/98

END DATE: 11/01/98

OPER. DATE: 12/01/98

DESCRIPTION: Installation of roadway sensors at various locations

FACILITIES: Garden State Parkway

STATUS: Design complete; Installation on hold pending funding availability.

TOTAL BUDGET: \$1,400,000

FUNDING SOURCE:

CONTACT: Richard Rash - Principal Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority
Route 17/GSP Camera Surveillance

LOCATION: New Jersey

CONTRACTOR: Parsons DeLeuw

BEGIN DATE: 06/01/93

END DATE:

OPER. DATE: 03/01/96

DESCRIPTION: Design and installation of Route 17/Garden State Parkway camera surveillance system.

FACILITIES: Garden State Parkway, Route 17

STATUS: Design underway

TOTAL BUDGET: \$350,000 (reimbursable)

FUNDING SOURCE: FHWA

CONTACT: Jude Depko Traffic Engineer, NJHA
TEL: (908) 442-8600 FAX:

CONTACT: John Kovar - Project Engineer, Parsons DeLeuw
TEL: (212) 266-8522 FAX:

New Jersey Highway Authority

Smart Parking Lots

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and development of a Smart Parking Lot at Interchanges 102 and 165 of the Garden State Parkway. Would provide on-site ticketing services and real-time transit schedule information.

FACILITIES: Garden State Parkway

STATUS: Planning proposed

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Charles McManus - Chief Engineer, NJHA

TEL: (908) 442-8600

FAX: (908) 442-1480

New Jersey Highway Authority

Spread Spectrum Radio

LOCATION: New Jersey

CONTRACTOR Hughes Ground Systems

BEGIN DATE:

END DATE: 06/01/93

OPER. DATE:

DESCRIPTION: Evaluation of spread spectrum radio for traffic management

FACILITIES: Garden State Parkway

STATUS: Study complete. No further work required.

TOTAL BUDGET:

FUNDING SOURCE: NJHA

CONTACT: Richard Rash - Prin. Hwy. Engineer, NJHA

TEL: (908) 442-8600 FAX: (908) 442-1480

New Jersey Highway Authority

Traffic Management and IVHS Operations Center

LOCATION: New Jersey

CONTRACTOR: Parsons Brinckerhoff

BEGIN DATE: 12/01/92

END DATE: 05/01/95

OPER. DATE: 03/01/97

DESCRIPTION: This project is a "siting and need study" for the New Jersey Highway Authority and the State Police Department. The study recommends a headquarters and operations center at Telegraph Hill for the State Police, a separate Operation Center for control and monitoring of traffic functions along the Garden State Parkway, including CCTV, VMS control and detectors. In addition, it establishes communication needs and management responsibilities for the departments.

FACILITIES: Garden State Parkway

STATUS: Study complete.

TOTAL BUDGET: \$3,620,000 (estimated construction)

FUNDING SOURCE: NJDOT, NJHA

CONTACT: Mark Bernard - Engineer, NJHA
TEL: (908) 442-8600 FAX: (908) 293-1110

CONTACT: Al Schaufler
TEL: (609) 734-7056 FAX: (609) 734-6900

New Jersey Highway Authority

Transit Smart Card Feasibility Study

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER.DATE:

DESCRIPTION: Feasibility study of read-write smart cards that would allow patrons to make calls directly to bus operators to be picked up. The smart card would be the means by which users identify themselves, place calls for service, and pay their fare.

FACILITIES: Garden State Parkway

STATUS: Planning proposed

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Arnold Mercer - Systems Engineer, NJHA

TEL: (908) 442-8600

FAX:

New Jersey Highway Authority

VMS

LOCATION: Dover Township, Ocean County, New Jersey

CONTRACTOR: Dabbro, Inc.

BEGIN DATE: 11/01/92

END DATE: 07/01/93

OPER. DATE: 07/01/93

DESCRIPTION: Installation of 32 VMS, MP 80.2 and MP 158

FACILITIES: Garden State Parkway

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Jude Depko - Principal Traffic Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Highway Authority

VMS

LOCATION: New Jersey

CONTRACTOR: Boswell Engineering

BEGIN DATE: 06/01/93

END DATE:

OPER. DATE: 03/01/96

DESCRIPTION: Design and installation of three VMSs at MP 140.8N, 155.95, and 152.8N.

FACILITIES: Garden State Parkway

STATUS: Design underway

TOTAL BUDGET: \$450,000 (\$300,000 reimbursable)

FUNDING SOURCE: FHWA

CONTACT: Jude Depko - Traffic Engineer, NJHA

TEL: (908) 442-8600 FAX: (908) 442-3624

CONTACT: Chris Mash - Project Engineer, Boswell Engineering

TEL: (201) 642-0770 FAX:

New Jersey Highway Authority, New Jersey DOT Traffic Operations Center Needs and Citing Study

LOCATION: New Jersey (exact location unknown at this time)

CONTRACTOR: Parsons Brinckerhoff

BEGIN DATE: 03/01/93

END DATE: 10/01/94

OPER. DATE:

DESCRIPTION: Identify potential occupants and functions of TOC which will serve as a communications center designed to support IVHS components

FACILITIES:

STATUS: Study complete.

TOTAL BUDGET:

FUNDING SOURCE: NJHA, NJDOT, and various others

CONTACT: Charles D. McManus - Chief Engineer, NJHA

TEL: (908) 442-8600 FAX: (908) 442-1480

New Jersey Highway Authority, New Jersey Transit
Interchange 123 Bus Ramps (Ernstson Road)

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE: 05/01/96

END DATE: 08/01/97

OPER. DATE: 06/01/98

DESCRIPTION: Preliminary design for Interchange 123 bus ramps to include HOV lane monitoring.

FACILITIES: Garden State Parkway

STATUS: Preliminary design work proposed

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Jim Schultz - Senior Engineer, NJHA

TEL: (908) 442-8600 FAX:

New Jersey Transit

Advanced Vehicle Location System

LOCATION: New Jersey

CONTRACTOR: Motorola-test mode, NJ Transit-currently

BEGIN DATE: 10/01/92

END DATE: 07/01/96

OPER. DATE: 10/01/92

DESCRIPTION: NJT continuing installation of an Automatic Vehicle Location (AVL) System to better monitor the location of their bus fleet and provide better real time bus schedule updates for patrons. Anticipate evaluating further technology for system wide implementation.

FACILITIES: Control Center, Maplewood, NJ

STATUS: Operational on 3 bus routes currently. Implementation scheduled for 36 routes by the end of summer 1996.

TOTAL BUDGET: Approx. \$8,000,000 (out of \$38MM grant)

FUNDING SOURCE: FTA

CONTACT: Mark Revis - Director of Communication Systems

TEL: (201) 491-7277 FAX: (201) 491-7239

New Jersey Turnpike Authority

Automatic Traffic Surveillance and Control System (ATSCS)

LOCATION: Northern New Jersey

CONTRACTOR: JHK & Associates

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Monitors traffic conditions between Interchanges 8A and 18; uses VMSs. Graphic design system will allow integration of ATSCS data with Computer Dispatch System used to track disabled vehicles. Restoration of failed detectors has begun.

FACILITIES: New Jersey Turnpike

STATUS: Installation underway

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Robert Dale - New Jersey Turnpike Authority

TEL: (908) 247-0900 ext. 5401 FAX: (908) 247-1434

New Jersey Turnpike Authority

ETTM

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE: 07/01/96

END DATE:

OPER. DATE:

DESCRIPTION: E-ZPass installation at all New Jersey Turnpike interchanges.

FACILITIES: New Jersey Turnpike

STATUS:

TOTAL BUDGET: \$37,900,000

FUNDING SOURCE:

CONTACT: Robert Hatala - NJTA

TEL: (908) 214-9261 FAX: (908) 247-2256

New Jersey Turnpike Authority

Highway Advisory Radio

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 07/01/94

DESCRIPTION: Nine fixed and two portable HAR sites on New Jersey Turnpike.

FACILITIES: New Jersey Turnpike, Interchanges 1,3,4,7,8A, 11,13A, 14B, I-95 extension.

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Lynn Fleeger - New Jersey Turnpike Authority

TEL: (908) 247-0900 ext. 5601 FAX: (908) 937-5926

New Jersey Turnpike Authority
Law Enforcement/Communications Center

LOCATION: Cranbury, NJ

CONTRACTOR: Seacoast Builders (Freehold, NJ)

BEGIN DATE: 10/01/93

END DATE: 05/01/95

OPER. DATE: 05/01/95

DESCRIPTION: Centralized office for New Jersey State Police Troop 'D' on the Turnpike with headquarters and one station housed in the same high-tech facility.

FACILITIES: New Jersey Turnpike

STATUS: Construction completed

TOTAL BUDGET: \$15,000,000

FUNDING SOURCE: Toll revenue and federal funds

CONTACT: Robert Dale - NJTA

TEL: (908) 247-0900 FAX: (908) 247-1434

New Jersey Turnpike Authority

New Jersey Turnpike Widening

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE: 11/01/94

OPER. DATE:

DESCRIPTION: As part of widening, speed limit, speed warning, and VMS's in construction areas are being converted from cable control to radio control anticipating the loss of the main communications cable. CCTV monitoring of Turnpike traffic will begin.

FACILITIES: New Jersey Turnpike

STATUS: Construction completed; some CCTV operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Alfonse Voza - New Jersey Turnpike Authority (radio controlled signs)
TEL: (908) 247-0900 ext. 5866 FAX: (908) 247-1434

CONTACT: R. Dale New Jersey Turnpike Authority (CCTV)
TEL: (908) 247-0900 ext. 5401 FAX: (908) 247-1434

New Jersey Turnpike Authority

Traffic Operations Center

LOCATION: New Brunswick, NJ

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 01/01/76

DESCRIPTION: 24 hour operations center with centralized dispatch for four radio frequencies, aid handling and initiating response plans. Also traffic monitoring, HAR, and changeable sign control using a computer-based network.

FACILITIES: New Jersey Turnpike

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: Toll revenue

CONTACT: Robert Dale NJTA
TEL: (908) 247-0900 ext. 5401 FAX: (908) 247-1434

CONTACT: L. Jackson
TEL: (908) 247-0900 ext. 5575 FAX: (908) 247-0612

New Jersey Turnpike Authority

Traffic Surveillance on I-95 near George Washington Bridge

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Planned installation of detector loops on 4.4 miles of I-95 near the George Washington Bridge.

FACILITIES: I-95

STATUS: Installation planned

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Robert Dale - New Jersey Turnpike Authority

TEL: (908) 247-0900 ext. 5401 FAX: (908) 247-1434

New Jersey Turnpike Authority

Upgrade of Police Radio for the New Jersey Turnpike

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE: 03/01/93

OPER. DATE:

DESCRIPTION: Communications for the NJ State Police on the Turnpike moved to the 800 MHz trunked state system on a special Turnpike radio link as the first step of multi-year plan that upgrades the entire communication system from microwave to portable radio.

FACILITIES New Jersey Turnpike

STATUS: Construction underway, 800 MHz use to begin 3/93

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Winston Chafin

TEL: (908) 247-0900 ext. 5354 FAX:

New Jersey Turnpike Authority

Variable Message Signs

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Completion of first VMS used as a prototype for a motorist response system took place in July 1994. If the signing and control mechanisms are successful, additional 19 signs will be installed throughout the New Jersey Turnpike with anticipated completion in late 1997.

FACILITIES: New Jersey Turnpike

STATUS: One sign operational, 19 signs under design.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Robert Dale - New Jersey Turnpike Authority

TEL: (908) 247-0900 ext. 5401 FAX: (908) 247-1434

CONTACT: S. Purdum - New Jersey Turnpike Authority

TEL: (908) 247-0900 ext. 5425 FAX: (908) 247-1434

New Jersey Turnpike Authority, TRANSCOM

CCTV at Interchange 16W of the New Jersey Turnpike

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Installation of two video cameras to monitor the New Jersey Turnpike in the vicinity of Interchange 16W and sections of Route 3. Video feeds will go to TRANSCOM, NJTA, NJDOT.

FACILITIES: New Jersey Turnpike, Route 3

STATUS: Design completed & FHWA approved, installation expected by Fall 1995

TOTAL BUDGET: \$200,000

FUNDING SOURCE: FHWA

CONTACT: Robert Dale - Director of Operations, NJTA
TEL: (908) 247-0900 ext. 5401 FAX: (908) 247-5926

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

New York City DOT

Computerized Area Tracking System (CAT)

LOCATION: New York City, citywide

CONTRACTOR: JHK & Associates

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: A system to link all elements of IVHS and incident management in the city.

FACILITIES:

STATUS: Operational

TOTAL BUDGET: \$3,500,000

FUNDING SOURCE:

CONTACT: Steve Galgano - D/A/C Traffic Engineering, NYCDOT

TEL: (718) 786-2772 FAX: (718) 937-6807

New York City DOT

Long Island Expressway Exclusive Bus/Taxi Lane

LOCATION: New York City, Borough of Queens

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Section of L.I.E. with exclusive bus/taxi lane is being reconstructed by NYSDOT and will include a new conduit for communications and new overhead gantries for future variable message signs and lane control signs. System shutdown for viaduct construction

FACILITIES: Long Island Expressway (I-495) between Maurice Avenue and the Queens Midtown Tunnel

STATUS: Design work proposed

TOTAL BUDGET:

FUNDING SOURCE: FHWA/NYS DOT/NYCDOT

CONTACT: Steve Galgano - D/A/C Traffic Engineering, NYCDOT

TEL: (718) 786-2772 FAX: (718) 937-6807

New York City DOT

TOPICS III

LOCATION: New York City

CONTRACTOR:

BEGIN DATE: 01/01/80

END DATE: 01/01/87

OPER. DATE: 01/01/87

DESCRIPTION: Central computer control of 1400 signalized intersections in Bronx, Queens, Kings, and Richmond Counties. Part of NYC Traffic Control System. Telephone lines used for communications.

FACILITIES: Bronx, Queens, Kings, Richmond

STATUS: Operational

TOTAL BUDGET: Estimated \$30,000,000

FUNDINGSOURCE:

CONTACT: Steve Galgano - D/A/C Traffic Engineering, NYCDOT

TEL: (718) 786-2772 FAX: (718) 937-6807

New York City DOT

TOPICS IV

LOCATION: New York City

CONTRACTOR:

BEGIN DATE: 04/01/95

END DATE: 02/01/00

OPER. DATE: 06/01/00

DESCRIPTION: Central computer control of 2,200 signalized intersections in Kings, Queens, and Bronx Counties to be completed in 2000. Part of NYC Traffic Control System.

FACILITIES:

STATUS: Request for proposal (RFP) has been developed and it will be advertised shortly.

TOTAL BUDGET: Estimated \$30,000,000

FUNDING SOURCE: FHWA/NYS DOT/NYCDOT

CONTACT: Steve Galgano - D/A/C Traffic Engineering, NYCDOT

TEL: (718) 786-2772 FAX: (718) 937-6807

New York City DOT

Traffic Control System

LOCATION: New York City

CONTRACTOR

BEGIN DATE: 01/01/85

END DATE: 06/01/94

OPER. DATE: 06/01/94

DESCRIPTION: NYC's central computer controlled traffic signal system. Currently controls over 6,000 signals. Control center located at NYC Traffic Control Center in Long Island City. Goal is to link with ATMS on NYS highways.

FACILITIES: Five boroughs

STATUS: 3,200 completed, 2,550 more by 12/95.

TOTAL BUDGET: \$71,000,000

FUNDING SOURCE: FHWA/NY State/NYC

CONTACT: Steve Galgano - D/A/C! Traffic Engineering, NYCDOT

TEL: (718) 786-2772 FAX: (718) 937-6807

New York City DOT

Traffic Management Center (TMC)

LOCATION: 28-11 Queens Plaza No., Long Island City, NY

CONTRACTOR:

BEGIN DATE: 01/01/93

END DATE: 08/01/95

OPER. DATE: 08/01/95

DESCRIPTION: Traffic management center.

FACILITIES: TMC

STATUS: Construction near completion

TOTAL BUDGET: \$2,000,000

FUNDING SOURCE: FHWA/NY State/-NYC

CONTACT: Steve Galgano - D/A/C Traffic Engineering, NYCDOT

TEL: (718) 786-2772 FAX: (718) 937-6807

New York City DOT

Van Wyck Surveillance and Control System

LOCATION: New York City, Queens

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 01/01/89

DESCRIPTION: Mainline, entrance ramp and service road loop detectors, 18 CCTV cameras, variable message signs, and ramp meters, with co-axial-cable and twisted pairs communications from Van Wyck Exp./JFK Airport to the NYC Traffic Control Center in Long Island City.

FACILITIES: Van Wyck Expressway

STATUS: Operational; an extended replacement by 12/97

TOTAL, BUDGET:

FUNDING SOURCE:

CONTACT: Steve Galgano - D/A/C Traffic Engineering, NYCDOT

TEL: (718) 786-2772

FAX: (718) 937-6807

New York City DOT
Williamsburg Bridge IVHS

LOCATION: Williamsburg Bridge New York City

CONTRACTOR:

BEGIN DATE: 01/01/95

END DATE: 06/01/95

OPER. DATE: 06/01/95

DESCRIPTION: Camera control, VMS, fiber optics, video detection, incident management.

FACILITIES: Bridge/TMC

STATUS: Construction underway

TOTAL BUDGET: Estimated \$3,500,000

FUNDING SOURCE: FHWA

CONTACT: Steve Galgano - D/A/C Traffic Engineering, NYCDOT

TEL: (718) 786-2772 FAX: (718) 937-6807

New **York City Metropolitan Transportation Authority**

Travel Information System Test

LOCATION: New York City

CONTRACTOR:

BEGIN DATE: 09/01/94

END DATE: 09/01/95

OPER. DATE:

DESCRIPTION: Will evaluate the effectiveness of various methods of providing comprehensive transit information at bus stops and on board buses. Selected as one of 16 IVHS Operational Tests.

FACILITIES: Manhattan central business district

STATUS: Design scheduled

TOTAL BUDGET: \$5,000,000

FUNDING SOURCE: FTA/MTA/NYCDOT/NYS DOT/Private

CONTACT: Raman Patel - Chief of System Engineering, New York City DOT

TEL: (718) 786-2442 FAX: (718) 937-6807

New York State Bridge Authority

Variable Message Signs

LOCATION: New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Variable message signs primarily used to convey regulatory information at the Newburgh-Beacon Bridge and at the Mid-Hudson Bridge.

FACILITIES: Newburgh-Beacon Bridge, Mid-Hudson Bridge

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

New York State DOT

Bronx and Northern Manhattan IVHS - Phase I

LOCATION: Manhattan and the Bronx, NY

CONTRACTOR:

BEGIN DATE: 03/01/96

END DATE: 03/01/98

OPER. DATE: 03/01/98

DESCRIPTION: This project proposes to implement an ATMS on the limited access state highways in the Bronx and Manhattan. These systems will be capable of surveillance, full scale incident management, motorist information, route diversion, and traffic control.

FACILITIES: I-95, I-278, I-87, I-695, I-895, I-295, HHP, BRP, HRD, HRP

STATUS: Consultant selection complete; awaiting contract award.

TOTAL BUDGET:

FUNDING SOURCE: Federal, State, NYC, PANYNJ

CONTACT: Fred Lai - NYSDOT - Reg. 11

TEL: (718) 482-4750 FAX: (718) 482-4744

New York State DOT

Cross Westchester Expressway Highway Advisory Radio

LOCATION: New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Extend coverage of Thruway Authority's HARS at Tappan Zee Bridge eastward along CWE to I-95. Also cover remote diversion points such as I-87/I-84 Int., I-84/Taconic Parkway Int., I-84/I-684 Int., I-87/Rt. 17 Int., 1-287/I-87 Int.

FACILITIES: Cross Westchester Expressway (I-287), NYSTA

STATUS: Installation proposed

TOTAL BUDGET:

FUNDING SOURCE:

New York State DOT

Highway Emergency Local Patrol (HELP)

LOCATION: New York State in Westchester, Nassau, Suffolk Counties and New York City

CONTRACTOR:

BEGIN DATE: 10/01/93

END DATE: 09/01/94

OPER. DATE: 09/01/94

DESCRIPTION: Provides free emergency road service to motorists traveling on sections of thruways and expressways in New York City, Long Island, and in Westchester County

FACILITIES: Interstate and Parkways

STATUS: Operational outside NYC

TOTALBUDGET: \$3,000,000

FUNDINGSOURCE: State with future federal participation

CONTACT: Paul Cuerdon - New York State DOT

TEL: (518) 457- 2384 FAX: (518) 457-1789

CONTACT: Larry Riley - New York City

TEL: (718) 830-7700 FAX:

New York State DOT

I-95 Cross Bronx Incident Management (PIN X726.85)

LOCATION: New York City, Bronx County, NY

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Implementation of an incident management plan on the Cross Bronx Expressway (I-95). NYC and/or privately owned tow trucks will be stationed along the expressway to respond to incidents. Roving patrols will be used for incident detection.

FACILITIES: Cross Bronx Expressway (I-95) from George Washington Bridge to Whitestone and Throgs Neck Bridges

STATUS: Planning underway

TOTAL BUDGET: \$8,000,000

FUNDING SOURCE: Federal, State, NYC

CONTACT: Fred Lai - NYSDOT - Reg. 11

TEL: (718) 482-4750 FAX: (718) 482-4744

New York State DOT

INFORM

LOCATION: Long Island, New York

CONTRACTOR:

BEGIN DATE: 01/01/82

END DATE:

OPER. DATE:

DESCRIPTION: Surveillance and control system along 35 mile northern corridor of Long Island. System includes loop detectors, 90 variable message signs, 112 traffic signals, 75 ramp meters, and 25 CCTV cameras. Control center located at State Office Building in Hauppauge.

FACILITIES: Long Island Expressway, Northern State Parkway, Grand Central Parkway, Jericho Turnpike

STATUS: Operational

TOTAL BUDGET: \$5,000,000

FUNDING SOURCE: \$4,000,000

CONTACT: Joseph Contegni - NYSDOT

TEL: (516) 360-6737 FAX:

New York State DOT

IVHS for Gowanus Expressway

LOCATION: New York City, Rings, Richmond, Queens Counties

CONTRACTOR:

BEGIN DATE: 06/01/93

END DATE: 05/01/96

OPER. DATE: 06/01/96

DESCRIPTION: Plans for IVHS on Gowanus Expwy during construction to mitigate regional traffic impacts. CCTV, loop detectors, and AVI to collect information to be disseminated to drivers and operation agencies and to control ramp meters and traffic/lane signals on diversion routes.

FACILITIES: Gowanus Expressway and corridor approaches

STATUS: Prospect Expressway component under contract.

TOTAL BUDGET: \$6,900,000

FUNDING SOURCE:

CONTACT: Fred Lai

TEL: (718) 482-4750 FAX: (718) 482-4744

New York State DOT

Long Island Area-Wide Closed Loop Signal System

LOCATION: Nassau and Suffolk Counties, NY

CONTRACTOR:

BEGIN DATE: 01/01/94

END DATE: 01/01/96

OPER. DATE: 01/01/96

DESCRIPTION: Incorporate existing traffic signal systems into an area-wide closed loop signal system. This project is the first phase and will involve approx. 30 systems/1350 signals.

FACILITIES: Various arterials

STATUS: Vendor Negotiations

TOTAL BUDGET: < \$1,000,000

FUNDING SOURCE: State

CONTACT: Jim Frein - NYSDOT

TEL: (516) 360-6020 FAX:

New York State DOT

Operation of Inform System

LOCATION: Long Island, New York

CONTRACTOR: PBFI

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Operate the INFORM (Information for Motorists) system to provide computerized traffic management and information for motorists traveling the 35 mile corridor on Long Island. The system includes 2,400 detectors, 112 traffic controllers, 72 VMSs, 70 ramp metering controllers, 20 TV cameras and 22 CM monitoring stations.

FACILITIES: Long Island Expressway, Northern State Parkway and Jericho Turnpike

STATUS: Operational

TOTAL BUDGET: \$3,000,000

FUNDING SOURCE:

New York State DOT

Southern State Parkway Congested Corridor

LOCATION: New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Design and install new control center to replace existing INFORM control center. Design and install surveillance and control system. Design and install closed loop systems for signal control for many of the State arterial highways in the region.

FACILITIES: Southern State Parkway

STATUS: Completing preliminary engineering.

TOTAL BUDGET:

FUNDING SOURCE: \$34m ISTEA's congested corridors

CONTACT: James Frein - NYSDOT Regional Traffic Engineer

TEL: (516) 360-6020 FAX:

CONTACT: Kevin Mahoney - FHWA, NY Division

TEL: (518) 472-4131 FAX: (518) 472-2428

New York State DOT

Traffic Flow Visualization and Control

LOCATION: Long Island, New York

CONTRACTOR: US Air Force Rome Laboratory/Kaman Science

BEGIN DATE: 11/01/94

END DATE: 05/01/98

OPER. DATE: 05/01/97

DESCRIPTION: Traffic Flow Visualization and Control (TFVC) combines video sensor technology and Artificial Intelligence to provide surveillance and sensing of real-time traffic flows. To date, a distributed network of five video sensors has been installed on the Long Island Expressway (I-495) with local video data processing feeding a central controller at NYSDOT's Traffic Operations Center in Hauppauge, Long Island. Within TFVC, CCTV, video processors, support electronics, artificial neural-networks, a central control system and visualization displays are being integrated in a modular and adaptable ATMS.

FACILITIES: LIE plus others

STATUS: Underway, prototypes deployed, continued development.

TOTAL BUDGET: \$3,600,000

FUNDING SOURCE: FHWA, NYSDOT

CONTACT: Ed Roberts
TEL: (518) 457-1994 FAX: (518) 457-1780

CONTACT: Scott Shyne - USAF Rome Laboratory
TEL: (315) 330-4819 FAX: (315) 330-4206

New York State DOT

Traffic Operations Center

LOCATION: Westchester, Rockland, and Putnam Counties, New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: TOC in NYSDOT's White Plains office gathers and disseminates construction project related traffic information to newspapers, radio stations, and employers.

FACILITIES:

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE; NHS, STP, NY State

CONTACT: Al Reilley - NYSDOT

TEL: (914) 747-1118 FAX:

New York State DOT

Upgrade and Extend INFORM

LOCATION: Long Island, New York

CONTRACTOR

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Extend east to exit 64 (Rte. 112), west to Throgs Neck Bridge, and north to Whitestone Bridge. Retrofit VMS's with light emitting diode technology. Upgrade central computers. Investigate integration with various signal systems.

FACILITIES: Long Island Expressway (I-495)

STATUS: Under study.

TOTAL BUDGET: \$23,000,000

FUNDING SOURCE:

New York State DOT

Variable Message Signs

LOCATION: Westchester County, NY

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION:

FACILITIES: Taconic State Parkway, Sprain Brook Parkway, Saw Mill River Parkway

STATUS: Design work proposed

TOTAL BUDGET:

FUNDING SOURCE: State/Federal

CONTACT: R. Peters - NYSDOT Region 8

TEL: (914) 431-5723 FAX:

New York State DOT

VTIP/Cable TV

LOCATION: Long Island, New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: VTIP is a computerized map of the INFORM corridor which displays speeds by color code. A 24 hour/day news station on Long Island will transmit VTIP on a real-time basis.

FACILITIES: Long Island Expressway, Northern State Parkway, Grand Central Parkway, Jericho Turnpike

STATUS: Operational & continuing to expand

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Thomas C. Werner - NYSDOT, Director, Traffic Engineering and Safety Division

TEL: (518) 457-6438 FAX:

New York State DOT

Western Queens IVHS - Phase II (PIN X228.53)

LOCATION: NYC, Queens County, NY

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Proposed ATMS on the LIE (I-495) in Queens County. The system will be capable of surveillance, full scale incident management, motorist information, route diversion, and traffic control, as well as being used to manage an exclusive bus lane on I-495.

FACILITIES: Long Island Expressway (I-495)

STATUS: Planning underway

TOTAL BUDGET:

FUNDING SOURCE: Federal, State, NYC

CONTACT: Fred Lai - NYSDOT - Reg. 11

TEL: (718) 482-4750

FAX: (718) 482-4744

New York State DOT and Westchester County

Lower Hudson Valley IVHS Study

LOCATION: Dutchess, Orange, Putnam, Rockland, and Westchester Counties

CONTRACTOR: Howard Needles Tammen & Bergendof

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Study will use TRANSCOM regional IVHS Study as base to create IVHS recommendations for implementation specific to Lower Hudson Valley.

FACILITIES: All limited access facilities and arterials

STATUS: Pending contract award

TOTAL BUDGET:

FUNDING SOURCE: Fed. Disc. (proposed) Early Deploy.

CONTACT: Misbahuddin Mirza - NYSDOT

TEL: (914) 5756050 FAX:

New York State DOT, TRANSCOM, New York State Thruway Authority

Incident Management Plans

LOCATION: Westchester and Rockland Counties, New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Eventual use of permanent and portable variable message signs, HARS, broadcast radio, self monitoring television (or other detection technology), and a control center.

FACILITIES: I-287, I-87, Cross Westchester Expwy, New York State Thruway in Rockland County, Suffern Interchange

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: John Ashe - TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

New York State DOT/New York State Thruway Authority

Cross Westchester Expressway CCTV Expansion

LOCATION: Westchester County, New York

CONTRACTOR

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Extend CCTV coverage at Tappan Zee Bridge to the entire Cross Westchester Expressway from the Tappan Zee Bridge along the Thruway to Interchange 8 then along the CWE to I-95. Being done in segments as funding becomes available.

FACILITIES: Cross Westchester Expressway (I-287)

STATUS: Design underway, Construction scheduled

TOTAL BUDGET: \$752,000

FUNDING SOURCE: Federal, TRANSCOM and State

CONTACT: Keith Giles - NYSTA

TEL: (914) 631-6300 FAX:

New York State Thruway Authority

CCTV in New York Division

LOCATION: I-287 Corridor of New York State Thruway

CONTRACTOR Stack Electric

BEGIN DATE: 10/01/94

END DATE: 07/01/96

OPER. DATE:

DESCRIPTION: Five-camera closed circuit television system for use in traffic surveillance and incident verification. Two cameras are mounted on the Tappan Zee Bridge and three cameras are mounted south along I-287. The system includes interconnection panels, fiber optic links, matrix switchers, monitors, and cameras. Fiber optics cabling is used for the connections of the cameras and monitors within the I-287 corridor. Monitors and camera control keyboards are located at various locations.

FACILITIES:

STATUS: Initial installation completed, second project expected completion in July 1996.

TOTAL BUDGET: \$500,000

FUNDING SOURCE: Agency Budget and FHWA

CONTACT: Don Klugo - NYSTA

TEL: (518) 436-2912 FAX: (518) 436-3068

New York State Thruway Authority

E-ZPass

LOCATION: At toll plaza facilities throughout New York State Thruway.

CONTRACTOR: Mark IV & Lockheed

BEGIN DATE: 01/01/92

END DATE:

OPER. DATE: 08/02/93

DESCRIPTION: E-ZPass is an electronic toll collection system. Multi-agency cooperative effort to implement a common read-write ETTM technology in the New York, New Jersey, and Pennsylvania areas. TRANSCOM is seeking to build on ETC installations to enhance traffic management capabilities.

FACILITIES:

STATUS: Plans for late 1995 to convert existing 6 plazas, add 3 more barrier plazas, & test a pilot ticket system application between exits 23 & 27 in Albany. Expansion to rest of Thruway in 1996.

TOTAL BUDGET: \$33,600,000

FUNDING SOURCE: Agency Budgets and FHWA

CONTACT: Barry Solomon - NYSTA

TEL: (518) 436-2756 FAX: (518) 436-3068

New York State Thruway Authority

Electronic Information Centers

LOCATION:

CONTRACTOR: None at this time

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Development of a kiosk type device which would present travelers with a range of information as well as provide a mechanism to make decisions. Uses could include: providing hotel information in a region, and even an electronic means to make hotel reservations; advertising of tourist attractions in a region; providing traveler information on road conditions, including video feeds from CCTV marketing/advertising utility of such systems. Later focus is anticipated to incorporate traffic information, both static (i.e., construction, events) and real-time (i.e., congestion information and video). These kiosks could be located at travel plazas, toll plazas, employers' offices, etc.

FACILITIES:

STATUS: Vendors provided presentations and demonstrations during early 1995. A Request for Proposal has been issued for submission of concept ideas.

TOTAL BUDGET:

FUNDING SOURCE: Agency Budget

CONTACT: Polly Gurnett - NYSTA

TEL: (518) 436-4227

FAX: (518) 436-3068

New York State Thruway Authority

Fiber Optics Infrastructure

LOCATION: New York State Thruway

CONTRACTOR: MFS

BEGIN DATE: 06/01/95

END DATE:

OPER. DATE:

DESCRIPTION: The Authority is undertaking a public-private partnership arrangement in which it will provide its right-of-way along 641 miles of highways in New York State to a telecommunications company for the installation of a fiber optics network, in exchange for revenue sharing and for telecommunications equipment/services being provided.

FACILITIES:

STATUS: Contract will be implemented immediately upon approval, followed by an aggressive marketing and construction schedule.

TOTAL BUDGET:

FUNDING SOURCE: Public/Private Partnership

CONTACT: Mike Keogh - NYSTA

TEL: (518) 436-2762 FAX: (518) 436-3068

New York State Thruway Authority

Highway Advisory Radio

LOCATION: Buffalo, Syracuse, Albany, and Lower Hudson Valley

CONTRACTOR: ISS

BEGIN DATE:

END DATE: 12/01/95

OPER. DATE:

DESCRIPTION: Thirteen transmitter sites are in operation. The systems are low-power lo-watt stations which are synchronized within a corridor to broadcast one common, continuous message. Recording stations are set up in each division, and also allow for dial-in access to change and/or record messages being broadcast. Divisions, TRANSCOM and Public Information from Headquarters are involved in managing the stations to varying degrees in the Divisions.

FACILITIES:

STATUS: Transmitter was installed at Suffern. Albany antenna upgraded. Frequency synchronizers are being built for Buffalo.

TOTAL BUDGET:

FUNDING SOURCE: Agency Budget

CONTACT: Dave Ardman - NYSTA

TEL: (518) 436-2984

FAX: (518) 436-3068

New York State Thruway Authority

Highway Loop Stations

LOCATION: Various points along New York State Thruway

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Inductive loops are being installed at select locations along the Thruway as part of large-scale capital projects at those locations. The stations collect data locally on traffic volume, speeds, and occupancy.

FACILITIES:

STATUS: Ongoing program,

TOTAL BUDGET:

FUNDING SOURCE: Agency Budget

CONTACT: Pete Gustafson - NYSTA

TEL: (518) 436-4453 FAX: (518) 436-3068

New York State Thruway Authority

I-287 Traffic Surveillance and Management Study

LOCATION: I-287, I-87, Tappan Zee Bridge Corridor

CONTRACTOR: URS (prime consultant) SAIC (sub-consultant)

BEGIN DATE: 01/01/95

END DATE: 09/01/95

OPER. DATE:

DESCRIPTION: A study of the requirements for improvements to traffic management on the I-287/I-87PTappan Zee Bridge corridor, with recommendations on actions before, during, and after planned capital programs in the corridor. The consultant is to submit a series of reports referred to as Technical Memoranda (TM) and a final report. The TMs are to cover: (1) Inventory, plans, and coordination; (2) Alternatives; (3) Analysis of alternatives with recommendations; (4) TOC needs; (5) Public Information; and, (6) Communications. All six areas will be consolidated in the final report.

FACILITIES:

STATUS: Drafts of TM4 & TM5 submitted in 01/95. TM3 submitted 03/95. TM6 due in 08/95. Final report due in 09/95.

TOTAL BUDGET: \$599,000

FUNDING SOURCE: Agency Budget

CONTACT: Tina Troisi - NYSTA

TEL: (518) 436-2913 FAX: (518) 436-3068

New York State Thruway Authority

Mobile Data Computers

LOCATION: Lower Hudson Valley of New York State Thruway

CONTRACTOR: IBM (Prime Contractor), Data Radio (Sub-contractor)

BEGIN DATE: 01/01/91

END DATE:

OPER. DATE:

DESCRIPTION: A pilot project to evaluate a digital data supplemental mode added to the existing UHF voice radio communications system in State Police Troop T vehicles. IBM laptop computers have been added to 58 patrol vehicles in New York Division, along with transmitters which modulate data over the same UHF carriers which are currently used by the Authority's voice radio system. The units provide the capabilities to send/receive messages, create reports, and request/receive dispatches across the NYSPIN database system e.g., for license plate checks). The system also includes a Computer Aided Dispatch system with forms, reports and records management.

FACILITIES:

STATUS: Various testing took place during late 1994 and early 1995. Contractor addressing various problems.

TOTAL BUDGET: \$860,000

FUNDING SOURCE: Agency Budget

CONTACT: Mary Grace Parker - NYSTA

TEL: (518) 436-2816 FAX: (518) 449-3198

New York State Thruway Authority

Traffic Operations Center - Headquarters

LOCATION: New York State Thruway Headquarters, Albany, NY

CONTRACTOR: JHK & Associates (initial consultant support in developing specifications)

BEGIN DATE: 01/01/95

END DATE: 01/01/97

OPER. DATE: 01/01/96

DESCRIPTION: A state-of-the-art Traffic Operations Center is planned for the Thruway's Headquarters facility. The TOC will be the focal point for communications (dispatching) with field activities, and will also handle all ITS-related surveillance and control activities (i.e., VMS, HAR, CCTV). The TOC will include large video screens for presenting images and information, as well as integrated workstations which utilize mapping systems for graphical user interfaces.

FACILITIES:

STATUS: System demonstrations, site visits to other states' TOC facilities, specifications, workplan, budget and schedule planned for 1995.

TOTAL BUDGET: \$5,000,000

FUNDING SOURCE: Agency Budget and FHWA

CONTACT: Donald E. Hubicki - NYSTA

TEL: (518) 436-2756 FAX (518) 436-3068

New York State Thruway Authority

Traffic Operations Center - Interim in NY Division

LOCATION: Tarrytown Offices

CONTRACTOR: JHK & Associates (consulting)

BEGIN DATE:

END DATE: 12/31/95

OPER. DATE:

DESCRIPTION: New York Division will consolidate its ITS-related control and management equipment into a single operations center room at the Tarrytown offices. HAR, VMS, CCTV and TRANSMIT systems will be among those relocated to this space.

FACILITIES:

STATUS: Plans and specs completed, procurement of materials and equipment is underway.

TOTAL BUDGET: \$90,000

FUNDING SOURCE: Agency Budget

CONTACT: Richard Newhouse - NYSTA

TEL: (914) 524-0252 FAX:

New York State Thruway Authority

TRANSMIT

LOCATION: Spring Valley-Tappan Zee Bridge & Spring Valley - Hillsdale Toll Plaza

CONTRACTOR: Farradyne Systems, Inc. (contractor), Daidone Electric (equipment), NJIT (evaluation)

BEGIN DATE: 05/01/95

END DATE: 05/01/96

OPER. DATE:

DESCRIPTION: Utilizes vehicles equipped with E-ZPass tags as probes for the purpose of traffic monitoring and incident detection. The Op Test has 22 overhead reader sites installed along the highway. These sites communicate to a central processing site at TRANSCOM offices via a combination of leased phone lines and spread spectrum radio. Data is collected, analyzed, and presented in graphical map form. A workstation has been installed at Tarrytown offices to access the system.

FACILITIES:

STATUS: Evaluation to be completed in May 1996.

TOTAL BUDGET: \$3,500,000

FUNDING SOURCE: FHWA

CONTACT: Richard Newhouse - NYSTA

TEL: (914) 524-0252 FAX:

New York State Thruway Authority

Traveler Information Signs

LOCATION:

CONTRACTOR: Hi Tech and SkyLine

BEGIN DATE: 01/01/94

END DATE:

OPER. DATE: 09/01/95

DESCRIPTION: Two prototype signs were installed in 1994 along the side of toll booths in two entry lanes at Exit 23. Two additional prototype signs are planned to be installed in 1995 on the approaching face of toll booths in two exit lanes at Exit 23. The signs are connected through the toll system for communications to display various messages. This pilot program is intended to help evaluate the effectiveness of presenting travelers with information while waiting in queues at toll plazas.

FACILITIES:

STATUS: Equipment being evaluated.

TOTAL BUDGET: \$8,000 each sign

FUNDING SOURCE: Agency Budget

CONTACT: Jules Madey - NYSTA

TEL: (518) 436-2756

FAX: (518) 436-3068

New York State Thruway Authority

VMS in Buffalo Division

LOCATION:

CONTRACTOR: Voltron

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Four red LED variable message signs have been installed since Dec. 1994. The signs are controlled via leased phone line communications to a PC-based controller system at the Buffalo Division office building.

FACILITIES:

STATUS:

TOTAL BUDGET: \$631,000

FUNDING SOURCE: FHWA

CONTACT: Pete Gustafson - NYSTA

TEL: (518) 436-4453

FAX: (518) 436-3068

New York State Thruway Authority

VMS in New York Division

LOCATION: Tappan Zee Bridge and MP 3.8 SB and at 233rd St.

CONTRACTOR: Power Line Constructors

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Two fiber-enhanced amber LED variable message signs have been in operation for several years in both directions approaching the Tappan Zee Bridge. Two other amber LED signs have been located at MP3.8 and at 233rd St. since 1994. Bids have been received for two additional signs and plans have been developed for eight more signs. All signs are controlled via leased phone line communications to a MOSYS PC-based controller system.

FACILITIES:

STATUS: Installed.

TOTAL BUDGET: \$575,000 for two new amber LED signs.

FUNDING SOURCE: Agency Budget

CONTACT: Richard Newhouse - NYSTA

TEL: (914) 524-0252 FAX:

New York State Thruway Authority

Wireless Infrastructure

LOCATION:

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Similar to the fiber optics arrangement, the Authority is seeking to establish a public-private partnership with vendors involved in wireless communications to provide its tower space (existing or future) in exchange for revenue sharing and for an upgrade to the Authority's own two-way radio system for State Police and maintenance uses.

FACILITIES:

STATUS: The Telecommunications Working Group has begun discussion on this matter. Undertook a smaller scale project earlier in 1995.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Mike Doyle - NYSTA

TEL: (518) 436-5301

FAX: (518) 436-3068

Pennsylvania DOT

CVO Institutional Issues Study

LOCATION:

CONTRACTOR: JHK & Associates, American Trucking Association

BEGIN DATE: 07/01/93

END DATE: 11/01/94

OPER. DATE:

DESCRIPTION: Phase I identified, analyzed, and made recommendations for improvement of regional enforcement practices and for overcoming barriers to implementation of IVHS CVO technologies.; in involved DE, DC, MD, NJ, NY, PA, VA, and WV. Phase II to begin pilot implementation to demonstrate coordinated enforcement applications.

FACILITIES:

STATUS: Phase I complete; Phase II underway as of 10/95.

TOTAL BUDGET: \$320,000 (Phase I); under development for Phase II.

FUNDING SOURCE: Federal ITS funding

CONTACT: Dennis Lebo - PennDOT

TEL: (717) 783-9776

FAX: (717) 787-5491

CONTACT: Dennis McGee - Office Motor Carriers

TEL: (717) 782-4443

FAX: (717) 782-4852

Pennsylvania DOT

I-95 Intermodal Mobility Project (SR0095, Section EAP)

LOCATION: Pennsylvania

CONTRACTOR: Raytheon Infrastructure, LS Transit Systems, Chilton Engineering, JHK & Associates, Buchart Horn, Computrari Systems

BEGIN DATE:

END DATE:

OPER. DATE: 01/01/98

DESCRIPTION: Application of advanced technology to 51-mile I-95 corridor in Pennsylvania to alleviate congestion and to integrate mass transit and automobile travel. Includes reconstructirehab of entire I-95 infrastructure over 10-15 yrs, closely coordinate with I-95 Coalition. ITS applications planned for construction phase and ultimate phases. Initial 18 mile section proposed to include HOV roadway.

FACILITIES: Entire length of I-95 within Pennsylvania

STATUS: Design underway; 1st mainline restoration let 1998 for initial 18 mile section.

TOTAL BUDGET:

FUNDING SOURCE: FHWA/Possibly FTA

CONTACT: Harvey S. Knauer , P.E. - I-95 Project Coordinator, PennDOT
TEL: (610) 964-6537 FAX: (610) 964-6668

CONTACT: Carmine Fiscina, P.E. - Area Engineer, FHWA
TEL: (717) 782-4423 FAX: (717) 782-3494

Pennsylvania DOT

Philadelphia Traffic and Incident Management System Feasibility Study

LOCATION: Philadelphia area

CONTRACTOR: JHK & Associates

BEGIN DATE: 05/01/92

END DATE: 12/01/92

OPER. DATE: 01/01/96

DESCRIPTION: Study recommends a long-term area-wide traffic and incident management (TIMS) program in Philadelphia area, including loop detectors, ramp metering, CMS, CCTV, and operations center covering 115 miles of Interstate

FACILITIES: I-95, I-476, I-676, I-76, I-276

STATUS: Study complete

TOTAL BUDGET:

FUNDING SOURCE: FHWA

CONTACT: Douglas W. May, P.E. - PennDOT
TEL: (610) 768-3053 FAX: (610) 768-3017

CONTACT: Carmine Fiscina, P.E. - FHWA
TEL: (717) 782-4423 FAX: (717) 782-3494

Pennsylvania DOT

Satellite Communications Feasibility

LOCATION: Philadelphia area

CONTRACTOR: Design: Urban Engineers using Raytheon and JHK as subs.
Construction: Mass. Electric Con. Company

BEGIN DATE: 04/21/95

END DATE: 03/28/98

OPER. DATE: 01/01/96

DESCRIPTION: Redundant satellite communications to I-95; four fixed VSAT/CCTV stations and one mobile VSAT/CCTV station.

FACILITIES: I-95

STATUS: Design complete, under construction.

TOTAL BUDGET: \$2,056,000

FUNDING SOURCE: FHWA

CONTACT: Doug May , P.E. - Pennsylvania DOT
TEL: (610) 768-3053 FAX: (610) 768-3017

CONTACT: Carmine Fiscina, P.E. - Area Engineer, FHWA
TEL: (717) 782-4423 FAX: (717) 782-3494

Pennsylvania DOT

TIMS I-476 Early Action - Phase I (SR476, Section DCN)

LOCATION: Philadelphia area

CONTRACTOR: Boles, Smyth & Associates: Jack Smyth, P.E., (215) 561-2644

BEGIN DATE: 02/01/91

END DATE: 12/01/91

OPER. DATE: 01/01/92

DESCRIPTION: Completed loops, accident investigation sites, fire access, and supplemental signs.

FACILITIES: I-476

STATUS: Operational

TOTAL BUDGET: \$2,000,000

FUNDING SOURCE: FHWA

CONTACT: Douglas W. May, P.E. - District Traffic Engineer, PennDOT
TEL: (610) 768-3053 FAX: (610) 768-3017

CONTACT: Carmine Fiscina, P.E. - Area Engineer, FHWA
TEL: (717) 782-4423 FAX: (717) 782-3494

Pennsylvania DOT

TIMS I-476 Early Action, Phase II (SR476, Section COM)

LOCATION: Philadelphia area

CONTRACTOR: Design: Urban Engineers Incorporated, Dunn Engineering Associates
Construction: Faschbeck and Moore, Inc.

BEGIN DATE: 02/22/95

END DATE: 05/03/98

OPER. DATE: 01/01/96

DESCRIPTION: Design of system to include 8 CCTV cameras, 16 ramp meters, microwave image detection (MIDS), spread spectrum radio, CODEC television.

FACILITIES: Blue Route (I-476)

STATUS: Under construction

TOTAL BUDGET: \$6,814,000

FUNDING SOURCE: FHWA

CONTACT: Tim O'Brien, P.E. - Liaison Engineer, PennDOT
TEL: (610) 964-6661 FAX: (610) 964-6668

CONTACT: Carmine Fiscina, P.E. - FHWA Area Engineer
TEL: (717) 782-4423 FAX: (717) 782-3494

Pennsylvania DOT

TIMS I-676 Early Action (SR0676, Section TIM)

LOCATION: Philadelphia area

CONTRACTOR: Frederic R. Harris

BEGIN DATE: 02/01/95

END DATE: 10/01/97

OPER. DATE: 10/01/99

DESCRIPTION: Design, construction, and operations of CCTV, VMSS, ramp metering, and microwave image detection (MIDS)

FACILITIES: I-676

STATUS: Design underway

TOTAL BUDGET: \$1,950,000

FUNDING SOURCE: FHWA

CONTACT: Douglas W. May, P.E. - District Traffic Engineer, PennDOT
TEL: (610) 768-3053 FAX: (610) 768-3017

CONTACT: Carmine Fiscina, P.E. - Area Engineer, FHWA
TEL: (717) 782-4423 FAX: (717) 782-3494

Pennsylvania DOT

TIMS I-95 Early Action - Phase I (SRO095, Section EYE)

LOCATION: Philadelphia area

CONTRACTOR: T.H. Green

BEGIN DATE: 04/01/92

END DATE: 09/01/93

OPER. DATE: 09/01/93

DESCRIPTION: Design, construction, and operation of 12 CCTV cameras, 4 VMS's, communications (DS-3, T-1, & POTS), and control center

FACILITIES: I-95

STATUS: Operational

TOTAL BUDGET: \$4,749,000

FUNDING SOURCE: FHWA

CONTACT: Tim O'Brien, P.E. - Liaison Engineer, PennDOT
TEL: (610) 964-6611 FAX: (610) 964-6668

CONTACT: Carmine Fiscina, P.E. - Area Engineer, FHWA
TEL: (717) 782-4423 FAX: (717) 782-3494

Pennsylvania DOT, University of the Arts, FHWA

Advanced Driver Information System Design

LOCATION: Philadelphia, PA

CONTRACTOR: University of the Arts

BEGIN DATE: 06/01/93

END DATE: 09/01/97

OPER. DATE:

DESCRIPTION: Develop an info. system through which designers can identify, obtain, and apply research findings and technical information during the design of info. and control features in vehicular environments. The work will coordinate with TIMS' CMS design in Phil

FACILITIES: Mostly lab research - will include I-95, I-476, I-76 CMS in research activities

STATUS: Study underway

TOTAL BUDGET: \$2,500,000

FUNDING SOURCE: ISTEA Demo project 1107(b)145

CONTACT: Dr. Charles Burnette - Project Director, University of the Arts

TEL: (215) 875-1059 FAX: (215) 875-1047

Pennsylvania Turnpike Commission

Communications Center

LOCATION: Highspire, Pennsylvania

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: PTC owns and operates a Communications Center in Harrisburg. The center operates 24 hrs/day, 7 days/wk, with a staff of 21. A State Police corporal is stationed there at all times. The Center uses a computer-aided dispatch system to manage information.

FACILITIES: Pennsylvania Turnpike System

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Joe Hawkins - Director of Communications, PTC

TEL: (717) 986-9613

FAX (717) 986-9652

Pennsylvania Turnpike Commission

Communications System

LOCATION: Pennsylvania

CONTRACTOR Maintenance contract currently with Syntonic, Inc.

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: PTC provides its own communication services using an analog microwave system. Design is underway for a replacement digital microwave system. The PTC is currently negotiating with a private partner for possible installation of a fiber optic communication line.

FACILITIES: Pennsylvania Turnpike System

STATUS: Planning underway; Design underway; Operational

TOTAL BUDGET: \$118,000,000 without fiber optics or maintenance

FUNDING SOURCE:

CONTACT: Joseph Hawkins - Communications Director, PTC

TEL: (717) 986-9613 FAX: (717) 986-9689

Pennsylvania Turnpike Commission

Contracted and Authorized Services, First Responder

LOCATION: Pennsylvania

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Currently, PTC has contracts for emergency and towing services along the Turnpike. Local fire, towing, ambulance and medical helicopter services are contracted to provide coordinated emergency responses for travelers in case of an emergency.

FACILITIES: Entire Pennsylvania Turnpike System

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Ron Frank - Operations Control Supervisor, PTC

TEL: (717) 986-9651

FAX: (717) 986-9689

Pennsylvania Turnpike Commission
Electronic Toll and Traffic Management

LOCATION: Pennsylvania

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: PTC is investigating ETTM as part of the E-ZPass interagency group of toll agencies from New York, New Jersey, and Pennsylvania. PTC has weigh-in-motion and automatic vehicle classification equipment installed at all toll facilities.

FACILITIES: Pennsylvania Turnpike

STATUS: Design underway

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Mr. Sam Sadler - DED - Fare Collection

TEL: (717) 939-9551 x2490 FAX: (717) 986-9646

Pennsylvania Turnpike Commission

Incident Detection Systems

LOCATION: Pennsylvania

CONTRACTOR

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Incident detection is provided through free cellular phone services, CB radio monitoring, call boxes, cameras in tunnels, Pike Watch (a joint program with Yellow Freight, Inc.), verbal notification at toll plazas by patrons, and employee notification via mobile radio.

FACILITIES: Entire Pennsylvania Turnpike System

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Joseph Hawkins - Director of Communications, PTC

TEL: (717) 986-9613

FAX: (717) 986-9689

Pennsylvania Turnpike Commission

Incident Management Team

LOCATION: Pennsylvania

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: The IM Team is made up of reps of the PTC's maintenance, safety, communications, engineering, and legal departments, as well as contracted services coordinator and State Police. The team meets monthly to discuss incidents that occurred in the previous month and pot. imp. to IM.

FACILITIES: I-76, I-276, PA 9, Toll 60, Toll 66, Toll 43 (PA Turnpike System)

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: John Boschi - DED - Maintenance, PTC

TEL: (717) 939-9551 ext. 3940 FAX: (717) 986-9676

Pennsylvania Turnpike Commission

IVHS Early Deployment Study

LOCATION: Pennsylvania

CONTRACTOR: Fredric R. Harris, Inc.

BEGIN DATE: 02/01/95

END DATE: 01/01/96

OPER.DATE:

DESCRIPTION: PTC has received early deployment funds to develop a strategic plan to improve traffic and goods movements in the greater Pittsburgh to the greater Philadelphia corridor. The User Service PAN will be submitted to FHWA in September 1995. Project completion is anticipated in January 1996.

FACILITIES: I-76 Corridor from greater Pittsburgh to greater Philadelphia

STATUS: Study initiated in early 1995

TOTAL BUDGET: \$300,000

FUNDING SOURCE: FHWA Early Deployment

CONTACT: Mike Castellano
TEL: (717) 782-4517 FAX:

CONTACT: Tim Scanlon - Traffic Engineer, PTC
TEL: (717) 939-9551 FAX: (717) 986-9628

Pennsylvania Turnpike Commission

Motorist Information Services

LOCATION: Pennsylvania

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Motorist information is provided through radio and telephone toll free numbers, highway advisory radio (1 perm., 4 port.), and variable message signs (2 perm., 20+ port.). Portable accident ahead signs are used for information and management purposes. The PTC is investigating the feasibility of installing Highway Advisory Radio systems to cover all interchanges.

FACILITIES: Entire Pennsylvania Turnpike System

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Joseph Hawkins - Communications Director, PTC

TEL: (717) 986-9613 FAX: (717) 986-9689

CONTACT: Mike Kennedy - Deputy Executive Director, PTC

TEL: (717) 939-9551 ext. 2920 FAX: (717) 986-9649

Port Authority of New York & New Jersey

Electronic Toll Collection - E-Z Pass

LOCATION: (See Facilities below)

CONTRACTOR: None. Project in preliminary engineering stage.

BEGIN DATE: 06/01/90

END DATE: 12/01/98

OPER. DATE: 04/01/97

DESCRIPTION: Electronic toll collection system, including automatic vehicle classification and image capture system.

FACILITIES: Bayonne Bridge, Goethals Bridge and Outerbridge Crossing, Staten Island, NY, George Washington Bridge, Fort Lee, NJ; Lincoln Tunnel, Weehawkin, NJ; Holland Tunnel, Jersey City, NJ.

STATUS: Preliminary engineering

TOTAL BUDGET: Budget is currently under review

FUNDING SOURCE: PANYNJ

CONTACT: David J. Gallagher - Asst. Director, Interstate Transportation Department - PANYNJ

TEL: (201) 216-6191 FAX: (201) 216-6221

Port Authority of New York & New Jersey
George Washington Bridge - Approaches in New Jersey - CCTV Installation

LOCATION: Fort Lee, Bergen County, NJ

CONTRACTOR: None. Project being done in-house.

BEGIN DATE: 01/01/94

END DATE: 06/01/96

OPER. DATE: 06/01/96

DESCRIPTION: 2 Cameras to be installed: I-80/I-95 Interchange; I-80/I-95 approach to upper level

FACILITIES: I-80, I-95, George Washington Bridge

STATUS: Awaiting lease agreement

TOTAL BUDGET: \$20,000 - \$30,000

FUNDING SOURCE: PANYNJ

CONTACT: Frank Gallo - Manager, Bridge Projects, Interstate Transportation Department, PANYNJ

TEL: (201) 216-6661 FAX: (201) 216-6305

Port Authority of New York & New Jersey
George Washington Bridge - Communications
Upgrade

LOCATION: Fort Lee, Bergen County, NJ

CONTRACTOR: Not yet scheduled to be bid.

BEGIN DATE: 01/01/87

END DATE: 09/01/97

OPER. DATE: 09/01/97

DESCRIPTION: Complete renovation of 30 year old communications desk. Includes upgrading of all architectural, mechanical and electrical systems.

FACILITIES: George Washington Bridge

STATUS: In redesign

TOTAL BUDGET: \$750,000

FUNDING SOURCE: PANYNJ

CONTACT: Frank Gallo - Manager, Bridge Projects, Interstate Transportation Dept. - PANYNJ

TEL: (201) 216-6661 FAX: (201) 216-6305

Port Authority of New York & New Jersey
George Washington Bridge - Drum Sign Replacement

LOCATION: Btwn Jones Rd. (Englewood, NJ) and Alexander Hamilton Blvd.,
(NYC)

CONTRACTOR: None. Project in planning stage.

BEGIN DATE: 11/01/93

END DATE: 12/01/99

OPER. DATE: 12/01/99

DESCRIPTION: Replace approximately 40 drum signs with VMS.

FACILITIES: All approaches to GWB

STATUS: Planning underway

TOTAL BUDGET: \$12,390,000

FUNDING SOURCE: PANYNJ

CONTACT: Stan Wiecek - Mgr, Capital Programs Coordination, Interstate
Transp. Dept. PANYNJ

TEL: (201) 216-6257 FAX: (201) 216-6305

Port Authority of New York & New Jersey
**George Washington Bridge - Intelligent Vehicle
Highway System - Phase I**

LOCATION: Fort Lee, NJ; New York, NY

CONTRACTOR: Consultants for Study: Edwards & Kelcey

BEGIN DATE: 09/01/94

END DATE:

OPER. DATE: 09/01/95

DESCRIPTION: Study: Develop recommendations for a fully integrated advanced traffic management system. Evaluation of technologies, equipment and cost benefits.

FACILITIES: George Washington Bridge

STATUS: Study expected to be completed by 9/95.

TOTAL BUDGET: \$350,000

FUNDING SOURCE: PANYNJ

CONTACT: Lee Home - Project Manager, Regional Intermodal Planning - PANYNJ

TEL: (212) 435-4498 FAX: (212) 435-4539

Port Authority of New York & New Jersey

George Washington Bridge - Palisades Interstate Parkway Joint Roadway Improvement

LOCATION: Palisades Interstate Parkway approach to George Washington Bridge

CONTRACTOR: Creamer Brothers Corp.

BEGIN DATE: 01/01/85

END DATE: 07/01/95

OPER. DATE: 07/01/95

DESCRIPTION: Install 1 VMS and 2 lane control signals on P.I.P. approach to GWB. Sign will be fully programmable. Interim controls via laptop computer with eventual connection to communications desk.

FACILITIES: Palisades Interstate Parkway approach to George Washington Bridge

STATUS: Construction 90% complete

TOTAL BUDGET: \$1,000,000

FUNDING SOURCE: PANYNJ

CONTACT: Frank Gallo - Manager, Bridge Projects, Interstate Transportation Dept. - PANYNJ

TEL: (201) 216-6661 FAX: (201) 216-6305

Port Authority of New York & New Jersey

George Washington Bridge - Replacement of Sign Structures in NY & NJ

LOCATION: Fort Lee, NJ; New York, NY

CONTRACTOR: E. Daskal Corp.

BEGIN DATE: 11/01/94

END DATE: 05/01/96

OPER. DATE: 05/01/96

DESCRIPTION: Rehabilitation of 36 sign structures on the NY and NJ roadways and main span of the GWB including replacement of three sign structures that are deteriorated beyond repair.

FACILITIES: George Washington Bridge

STATUS: Under construction

TOTAL BUDGET: \$1,475,000

FUNDING SOURCE: PANYNJ

CONTACT: Frank Gallo - Manager, Bridge Projects, Interstate Transportation Dept. - PANYNJ

TEL: (201) 216-6661 FAX: (201) 216-6305

Port Authority of New York & New Jersey

George Washington Bridge - Security Enhancement - Supervisory Control & Data Acquisition (SCADA)

LOCATION: Fort Lee, NJ; New York, NY

CONTRACTOR: Not yet bid

BEGIN DATE: 02/01/93

END DATE: 08/01/97

OPER. DATE: 08/01/97

DESCRIPTION: Replacement of the existing security system to advance the safety of anchorage, towers and other essential elements. The project also includes fence sensors, motion detectors and television surveillance.

FACILITIES: George Washington Bridge

STATUS: In design

TOTAL BUDGET: \$6,588,000

FUNDING SOURCE: PANYNJ

CONTACT: Dipak Mehta Mgr, Capital Programs & Bus. Dev., Interstate Trans. Dept. - PANYNJ

TEL: (201) 216-6658 FAX: (201) 216-6305

Port Authority of New York & New Jersey

George Washington Bridge VMS

LOCATION: Fort Lee, NJ; New York City

CONTRACTOR: None. Will be in-house installation

BEGIN DATE: 06/01/93

END DATE: 12/01/96

OPER. DATE: 12/01/96

DESCRIPTION: Installation of 6 VMS (LED). Remotely controllable from P.C. with modem to cellular telephone and modem at each sign.

FACILITIES: New Jersey: Center Ave; Lemoine Ave; prior to Palisades Interstate Parkway Toll Plaza; New York City: Henry Hudson Pkwy; overpass between Amsterdam and Audubon Avenues.

STATUS: Re-engineering of support structures prior to installation

TOTAL BUDGET: \$124,000 (purchase cost of signs)

FUNDING SOURCE: PANYNJ

CONTACT: Bob Elliott - Tunnels Bridges & Terminals Program Coordinator
- PANYNJ

TEL: (201) 216-6614 FAX: (201) 216-6625

Port Authority of New York & New Jersey
Goethals Bridge - Upgrade Communications Desk

LOCATION: Staten Island, New York City

CONTRACTOR: Scheduled to be bid last quarter 1995

BEGIN DATE: 10/01/89

END DATE: 11/01/96

OPER. DATE: 11/01/96

DESCRIPTION: Upgraded desk will provide expanded CCTV system with additional monitors. Will provide coverage for Outerbridge Crossing, Bayonne Bridge, and Goethals Bridge.

FACILITIES: Bayonne Bridge, Goethals Bridge, Outerbridge Crossing

STATUS: Design nearing completion

TOTAL BUDGET: \$1,200,000

FUNDING SOURCE: PANYNJ

CONTACT: Edmond Chalom - Manager, Major Projects, Interstate Transportation Dept. - PANYNJ

TEL: (201) 216-6302 FAX: (201) 216-6305

Port Authority of New York & New Jersey
Holland and Lincoln Tunnels - Tunnel Traffic Control System

LOCATION: New York City

CONTRACTOR: None. Still in planning stage.

BEGIN DATE: 05/01/93

END DATE: 12/01/99

OPER. DATE: 12/01/99

DESCRIPTION: Installation of a state-of-the-art system to monitor traffic, detect stoppages, accumulate data and improve throughput.

FACILITIES: Holland Tunnel; Lincoln Tunnel

STATUS: Conceptual planning

TOTAL BUDGET: \$6,000,000

FUNDING SOURCE: PANYNJ

CONTACT: John Doyle - Project Manager, Interstate Transportation Dept.
- PANYNJ

TEL: (201) 216-6543 FAX: (201) 216-6027

Port Authority of New York & New Jersey

Holland Tunnel - VMS

LOCATION: Jersey City, NJ; New York City

CONTRACTOR: None. Will be in-house installation.

BEGIN DATE: 06/01/93

END DATE: 12/01/96

OPER. DATE: 12/01/96

DESCRIPTION: Installation of 4 VMS. Remotely controllable from P.C. with modem to cellular telephone and modem at each sign.

FACILITIES: Holland Tunnel - one VMS at South Tube entrance; one at North Tube entrance; two at Toll Plaza.

STATUS: Re-engineering of support structures prior to installation.

TOTAL BUDGET: \$41,000 (purchase cost of VMS)

FUNDING SOURCE: PANYNJ

CONTACT: Bob Elliott - Tunnels Bridges & Terminals Program Coordinator
- PANY&NJ

TEL: (201) 216-6614 FAX: (201) 216-6625

Port Authority of New York & New Jersey

JF Kennedy International Airport - Central Terminal Area (CTA) Traffic Signal System

LOCATION: JFK International Airport, Queens, NY

CONTRACTOR: Welsback Electric (Design Consultant: JHK & Associates)

BEGIN DATE: 06/01/91

END DATE: 01/01/2000

OPER. DATE: 05/01/93

DESCRIPTION: Modernization, replacement and coordination of 35 signalized intersections within the JFK Airport Central Terminal Area (CTA).

FACILITIES: Southern State Parkway, Van Wyck Expressway, Nassau Expressway

STATUS: System became operational in 1993. System is undergoing continuing modifications as roadways are modified under redevelopment program.

TOTAL BUDGET: \$1,300,000

FUNDING SOURCE: PANYNJ

CONTACT: Ken Kellaher - Staff Services Engineer - PANYNJ

TEL: (212) 435-7071 FAX: (212) 435-7390

Port Authority of New York & New Jersey
**JF Kennedy International Airport - Non-Central
Terminal Area Freeway Management System**

LOCATION: JFK International Airport, Queens, NY

CONTRACTOR: JHK & Associates - consultant for planning work

BEGIN DATE: 04/01/92

END DATE: 07/21/95

OPER. DATE:

DESCRIPTION: This project is in the early functional planning stage and would include loop detectors, CCTV, and VMS to allow for the diversion of airport traffic to less congested access roads. System would interface with NYCDOT's Van Wyck Surveillance System.

FACILITIES: Southern Parkway, Van Wyck Expressway, Nassau Expressway, JFK Expressway

STATUS: In study and development stage.

TOTAL BUDGET: \$4,000,000 (estimated total project cost)

FUNDING SOURCE: PANYNJ

CONTACT: Mewburn H. Humphrey - Senior Airport Engineer - JFK Airport Facilities Division, PANYNJ

TEL: (718) 244-3723 FAX: (718) 244-3670

CONTACT: Thomas H. Farley - Staff Services Engineer, PANYNJ

TEL: (212) 435-7427 FAX: (212) 435-7390

Port Authority of New York & New Jersey
Lincoln Tunnel - Exclusive Bus Lane Signal
Modification

LOCATION: Weehawken, Union City, NJ

CONTRACTOR: L. K. Comstock & Co., Inc.

BEGIN DATE: 07/01/92

END DATE: 12/01/95

OPER. DATE: 12/01/95

DESCRIPTION: Replace overlane incandescent fixtures with fiber optic fixtures maintainable from shoulder.

FACILITIES: NJ Rt 495

STATUS: Construction estimated to begin 7/95

TOTAL BUDGET: \$3,320,000

FUNDING SOURCE:

CONTACT: Joe Augusta - Project Engineer, Interstate Transportation Dept.
- PANYNJ

TEL: (201) 216-6664 FAX: (201) 216-6305

CONTACT: Nicole McFarlane - Project Manager, Interstate Transportation
Dept. - PANYNJ

TEL: (201) 216-6020 FAX: (201) 216-6305

Port Authority of New York & New Jersey
**Lincoln Tunnel - Rehabilitation of Supervisory
Control System**

LOCATION: Lincoln Tunnel

CONTRACTOR: None. In preliminary design stage.

BEGIN DATE: 05/01/94

END DATE: 04/01/2000

OPER. DATE: 04/01/2000

DESCRIPTION: Installation of fiber optic network and a supervisory control system for the monitoring and controlling of the tunnel traffic lights of the north, center and south tubes.

FACILITIES: Lincoln Tunnel

STATUS: In preliminary design

TOTAL BUDGET: \$27,500,000

FUNDING SOURCE: PANYNJ

CONTACT: Ernest Hulse - Program Manager, Interstate Transportation Project Mgmt Group

TEL: (201) 216-6018 FAX: (201) 216-6305

Port Authority of New York & New Jersey
Lincoln Tunnel - Traffic Diversion Sign System

LOCATION: Lincoln Tunnel

CONTRACTOR: Scheduled to be bid approximately 8/95

BEGIN DATE: 01/01/86

END DATE: 09/01/96

OPER. DATE: 09/01/96

DESCRIPTION: Install two fully variable matrix signs.

FACILITIES: Pulaski Skyway eastbound, outside Jersey City, NJ; Route 3 eastbound, Secaucus, NJ area

STATUS: Design essentially complete

TOTAL BUDGET: \$1,500,000

FUNDING SOURCE: \$1,400,000 PANYNJ; \$100,000 FHWA

CONTACT: Rolf Skoglund - Project Manager, Interstate Transportation - PANYNJ

TEL: (201) 216-6544 FAX: (201) 216-6544

Port Authority of New York & New Jersey

Lincoln Tunnel - Upgrade Tunnel Video Cameras

LOCATION: Weehawkin, NJ; New York, NY

CONTRACTOR: Farica Electric Contracting Corp.

BEGIN DATE: 07/01/94

END DATE: 01/01/96

OPER. DATE: 01/01/96

DESCRIPTION: Upgrade tunnel surveillance system by replacing existing cameras with 68 new tunnel video cameras. Replace existing coaxial cable and telephone wire with new fiber optic cable. Also, update and expand control equipment in the NJ Administration Building.

FACILITIES: Lincoln Tunnel

STATUS: Installation in progress

TOTAL BUDGET: \$2,517,999

FUNDING SOURCE: PANYNJ

CONTACT: Nicole McFarlane - Project Manager, Interstate Transportation Department - PANYNJ

TEL: (201) 216-6020 FAX: (201) 216-6305

Port Authority of New York & New Jersey

Lincoln Tunnel - VMS

LOCATION: Lincoln Tunnel (Weehawkin, NJ); New York City Streets

CONTRACTOR: None. Will be in-house installation.

BEGIN DATE: 06/01/93

END DATE: 12/01/96

OPER. DATE: 12/01/96

DESCRIPTION: Installation of 9 VMS at locations on and immediately adjacent to facility. Remotely controllable from P.C. with modem to cellular telephone and modem at each sign.

FACILITIES: Above Toll Plaza; North Tube-NY entrance; NY Expressway at 37 St; 40 St and 11 Ave; other Manhattan streets.

STATUS: Re-engineering of support structures prior to installation.

TOTAL BUDGET: \$186,000 (purchase cost of signs)

FUNDING SOURCE:

CONTACT: Bob Elliott - Tunnels Bridges & Terminals Program Coordinator,
PANYNJ

TEL: (201) 216-6614 FAX: (201) 216-6625

Port Authority of New York & New Jersey
Newark International Airport - Geographic
Information System

LOCATION: Newark International Airport, Newark, New Jersey

CONTRACTOR: Software Consultant: ESRI, Inc.

BEGIN DATE: 06/01/93

END DATE: 08/01/95

OPER. DATE: 08/01/95

DESCRIPTION: Development of a GIS package to integrate traffic databases on parking lot activity, vehicular traffic volumes, vehicular accident records, sign inventory, etc. The Arc/Cadd GIS package will be used.

FACILITIES: New Jersey Turnpike, I-78, US Route 1, US Route 9

STATUS: Integrating GIS with existing traffic management systems, such as highway advisory radio and change all message signs (CMS)

TOTAL BUDGET: \$100,000

FUNDING SOURCE: PANYNJ

CONTACT: David W. Caruth - Traffic Engineering Supervisor, PANYNJ

TEL: (212) 435-7108 FAX: (212) 435-8407

Port Authority of New York & New Jersey

Port Authority Bus Terminal - Variable Matrix Signs

LOCATION: 42 Street and Eighth Ave., New York, NY

CONTRACTOR: Barbaro Electric Co., Inc.

BEGIN DATE: 03/01/91

END DATE: 07/01/95

OPER. DATE: 07/01/95

DESCRIPTION: Purchase and install 12 VMS, which will be placed on the three operating bus levels, as well as approaches to the terminal. The signs are to be connected via fiber optic cable to the operations control center.

FACILITIES: Port Authority Bus Terminal

STATUS: Project is proceeding on schedule

TOTAL BUDGET: \$1,031,000

FUNDING SOURCE: PANYNJ

CONTACT: Stephen Fiorelli - Manager, Terminal & Tunnel Projects,
Interstate Trans. Dept. - PANYNJ

TEL: (201) 216-6662 FAX: (201) 216-6305

Port Authority of New York & New Jersey

Port Authority Bus Terminal - Visual Paging System

LOCATION: 42 Street and Eighth Ave., New York, NY

CONTRACTOR: Design Consultant: Apple Designs, Inc. Contract for installation scheduled to be bid 3/96

BEGIN DATE: 12/01/94

END DATE: 12/01/96

OPER. DATE: 12/01/96

DESCRIPTION: Installation of visual paging system (16 VMS) at Bus Terminal public areas in compliance with Americans with Disabilities Act.

FACILITIES: Port Authority Bus Terminal

STATUS: Nearing completion of Stage II design

TOTAL BUDGET: \$750,000

FUNDING SOURCE: PANYNJ

CONTACT: Edward Lopez - Project Mgr, Terminal & Tunnels Projects, Interstate Transp. Dept.

TEL: (201) 216-6343 FAX: (201) 216-6305

Port Authority of New York & New Jersey

Staten Island Bridges - CCTV System

LOCATION: Staten Island, New York City

CONTRACTOR: In design phase

BEGIN DATE: 10/01/93

END DATE: 11/01/96

OPER. DATE: 11/01/96

DESCRIPTION: Add nine new roadway surveillance cameras to the existing five at Bayonne Bridge, Goethals Bridge and Outerbridge Crossing to improve traffic incident management capacity at each bridge and increase centralized remote monitoring capability at the Goethals Bridge communications desk.

FACILITIES: Bayonne and Goethals Bridges and Outerbridge Crossing

STATUS: In design phase

TOTAL BUDGET: \$1,900,000

FUNDING SOURCE: PANYNJ

CONTACT: Edmond Chalom - Manager, Major Projects, Interstate Transportation Dept. - PANYNJ

TEL: (201) 216-6302 FAX: (201) 216-6305

Port Authority of New York & New Jersey

Staten Island Bridges - VMS

LOCATION: Staten Island, NY

CONTRACTOR: None. Will be in-house installation.

BEGIN DATE: 06/01/93

END DATE: 12/01/96

OPER. DATE: 12/01/96

DESCRIPTION: Installation of four VMS. Remotely controllable from P.C. with modem to cellular telephone and modem at each sign.

FACILITIES: Bayonne Bridge - one VMS on bridge structure above northbound lane and one above southbound lane. Goethals Bridge - one VMS westbound toll canopy. Outerbridge Crossing - one VMS at Richmond Parkway and southbound 440 merge.

STATUS: Re-engineering of support structure prior to installation.

TOTAL BUDGET: \$124,000 (purchase cost of signs)

FUNDING SOURCE: PANYNJ

CONTACT: Bob Elliott - Tunnels Bridges & Terminals Program Coordinator,
PAN-Y-NJ

TEL: (201) 216-6614 FAX: (201) 216-6625

**Potomac-Rappahannock Transportation Commission,
NVA Planning Dist and Virginia DOT**

**Advanced Ridesharing and Traveler Information
System (ARTIS)**

LOCATION: Prince William and Stafford Counties

CONTRACTOR:

BEGIN DATE: 01/01/94

END DATE: 07/01/96

OPER. DATE:

DESCRIPTION: The purpose of this op test is to determine if an ITS-Based ARTIS can be a cost-effective way to reduce traffic congestion, gasoline consumption, air pollution, and mobility problems for residents in low-density suburban and rural areas.

FACILITIES:

STATUS: Op test approved 01/94 - underway

TOTAL BUDGET:

FUNDING SOURCE: FHWA & non-Fed project participants

CONTACT: Leo Auger - Exec. Dir., Potomac Rappahannock Transportation Commission (PRTC)

TEL: (703) 490-4018 FAX:

CONTACT: Ron Boenau - Federal Transit Authority (FTA)

TEL: (202) 366-0195 FAX:

Private Fleet Management Institute (NPTC affiliated)

Private Fleet Outreach/Advantage I-75

LOCATION: I-75 from Miami, FL, to Detroit, MI, to Rte 401 to Ontario, Canada

CONTRACTOR: Kentucky Transportation Center, University of Kentucky

BEGIN DATE: 11/01/93

END DATE: 07/01/96

OPER. DATE: 10/01/95

DESCRIPTION: Assure private fleet involvement and participation in all phases of Advantage I-75 program.

FACILITIES: Weigh stations interconnected all along the corridor.

STATUS: Alpha test successfully completed. Corridor weigh stations wired/inter- connected for two yr op test, w/4500 transponder equipped vehicles.

TOTAL BUDGET: \$50,000

FUNDING SOURCE: FHWA, Kentucky Transportation Center

CONTACT: Don Hartman - Kentucky Transportation Center
TEL: (606) 257-4573 FAX: (606) 257-1815

CONTACT: Doug McKelvey - FHWA - Office of Motor Carriers
TEL: (202) 366-9246 FAX: (202) 366-7298

**Private Fleet Management Institute (PFMI), NPTC
Affiliated**

IVHS Cooperative Agreement (CVO)

LOCATION: Nationwide

CONTRACTOR: Sole source

BEGIN DATE: 04/01/94

END DATE: 04/01/96

OPER. DATE:

DESCRIPTION: Define private trucking interests in commercial vehicle operations projects/programs and assure private fleet participation and perspectives in CVO project/program design and implementation

FACILITIES: All IVHS CVO projects/programs

STATUS: On-going.

TOTAL BUDGET: \$250,000

FUNDING SOURCE: FHWA - Office of Motor Carriers

CONTACT: Doug McKelvey - Office of Motor Carriers

TEL: (202) 366-9246 FAX: (202) 366-7298

Rhode Island DOT

Providence, RI Early Deployment Planning Study

LOCATION: Providence Metropolitan Area

CONTRACTOR: To be determined

BEGIN DATE: 09/01/95

END DATE: 09/01/98

OPER. DATE: 09/01/96

DESCRIPTION: Project will create a plan which will direct the implementation and operation of ITS in the State of RI based on the specific needs and resources of the State, through a Traffic Operations Center (TOC).

FACILITIES: To be determined

STATUS: Study approved. State's Early Deployment capability to be implemented in phases, between 1995 and 1998.

TOTAL BUDGET: \$3,400,000

FUNDING SOURCE: FHWA & State

CONTACT: Paul R. Annarummo - Managing Engineer, Rhode Island DOT
TEL: (401) 277-2694 FAX: (401) 277-2207

CONTACT: Jonathan McDade - FHWA Region 1
TEL: (518) 472-4253 FAX:

Rhode Island DOT

Statewide Traffic Congestion Management System

LOCATION: Rhode Island

CONTRACTOR VHB

BEGIN DATE: 09/01/94

END DATE: 03/01/96

OPER. DATE:

DESCRIPTION: Study to develop statewide congestion management system featuring incident management (detection, response, and a Central Traffic Operations and Communications Center), and development of congestion reduction measures consistent with I-95 IVHS corridor program

FACILITIES: To be determined

STATUS: Study progressing

TOTAL BUDGET: \$804,610

FUNDING SOURCE: FHWA and State

CONTACT: Thomas Conboy - Traffic Management, Rhode Island DOT
TEL: (401) 277-2694 FAX: (401) 277-2207

CONTACT: Rick Backlund - Transportation Planner, FHWA, Rhode Island
TEL: (401) 528-4548 FAX:

Samaritania, Inc.

CVS Samaritan Van Program

LOCATION: Washington, D.C.

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 09/01/91

END DATE:

OPER. DATE: 09/01/91

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: Two fully equipped, professionally staffed Samaritan Emergency Response Vehicles patrolling Rte 395 from I-495 to Pennsylvania Avenue & I-95 - Lorton, VA to I-495, also Rte I-495 between the Woodrow Wilson Bridge and Rte 66 during AM and PM peak travel periods.

STATUS: Operational

TOTAL BUDGET: \$240,000/year

FUNDING SOURCE: CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

CVS Samaritan Van Program

LOCATION: Philadelphia, PA

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 08/01/89

END DATE:

OPER. DATE: 08/01/89

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: Two fully equipped, professionally staffed Samaritan Emergency Response Vehicles patrolling I-95 between Woodhaven Rd. and the Airport, Rte 76 (Schullkyl Expway) between I-95 and Gladwyne Ave., Rte 1 from Rte 76 to Broad Street & 291/Platt Bridge during AM and PM peak travel periods.

STATUS: Operational

TOTAL BUDGET: \$240,000/year

FUNDING SOURCE: CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

CVS Samaritan Van Program

LOCATION: Westchester County, NY

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 02/01/90

END DATE:

OPER. DATE: 02/01/90

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: One fully equipped, professionally staffed Samaritan Emergency Response Vehicle patrolling I-287 between I-95 and the Tappan Zee Bridge during AM and PM peak travel periods in cooperation with the New York Thruway.

STATUS: Operational

TOTAL BUDGET: \$122,000/year

FUNDING SOURCE: CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

CVS Samaritan Van Program

LOCATION: Long Island, NY - Nassau/Suffolk Line

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 02/01/95

END DATE:

OPER. DATE: 02/01/95

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: One fully equipped, professionally staffed Samaritan Emergency Response Vehicle patrolling the Long Island Expressway between I-495 Exit 44 (Rte 135) and Exit 53 (Sagtikos State Parkway) during AM and PM peak travel periods.

STATUS: Operational

TOTAL BUDGET: \$122,000/year

FUNDING SOURCE: CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

CVS Samaritan Van Program

LOCATION: Albany, NY

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 04/01/83

END DATE:

OPER. DATE: 04/01/83

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: Two fully equipped, professionally staffed Samaritan Emergency Response Vehicles patrolling Routes 90, 787, 87 and 7 during AM and PM peak travel periods.

STATUS: Operational

TOTAL BUDGET: \$236,000/year

FUNDING SOURCE: CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

CVS Samaritan Van Program

LOCATION: Providence, RI

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 02/01/78

END DATE:

OPER. DATE: 02/01/78

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: One fully equipped, professionally staffed Samaritan Emergency Response Vehicle patrolling I-95 between Pawtucket and Warwick and I-195 from I-95 to the Massachusetts line during AM and PM peak travel periods.

STATUS: Operational

TOTAL BUDGET: \$122,000/year

FUNDING SOURCE: CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

First Fidelity Samaritan Van Program

LOCATION: Stamford, CT

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 07/01/95

END DATE:

OPER. DATE: 07/01/95

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: One fully equipped, professionally staffed Samaritan Emergency Response Vehicle patrolling I-95 from the New York line to Rte 7 Norwalk during AM and PM peak travel periods.

STATUS: Formulation Phase

TOTAL BUDGET: \$120,000/year

FUNDING SOURCE: First Fidelity Bancorporation

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

MHD/Bank of Boston Samaritan Van Program

LOCATION: Worcester, MA

CONTRACTOR Samaritania, Inc.

BEGIN DATE: 02/01/78

END DATE:

OPER. DATE: 02/01/78

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: Four fully equipped, professionally staffed Samaritan Emergency Response Vehicles patrolling I-290, I-190, I-395, I-495 and Rte 2 within Worcester County during AM and PM peak travel periods.

STATUS: Operational

TOTAL BUDGET: \$386,000/year

FUNDING SOURCE: Bank of Boston-Worcester & Massachusetts Highway Department

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508)541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

MHD/CVS Samaritan Van Program

LOCATION: Boston, MA

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 02/01/79

END DATE:

OPER. DATE: 02/01/79

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information,

FACILITIES: Twelve fully equipped, professionally staffed Samaritan Emergency Response Vehicles and Four Samaritan Emergency Response Tow Vehicles complete a comprehensive motorist assistance patrol for all major routes in the Greater Boston area during AM and PM peak travel periods.

STATUS: Operational

TOTAL BUDGET: \$1,516,000/year

FUNDING SOURCE: Massachusetts Highway Department & CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

Samaritania, Inc.

MHD/CVS Samaritan Van Program

LOCATION: Springfield, MA

CONTRACTOR: Samaritania, Inc.

BEGIN DATE: 09/01/95

END DATE:

OPER. DATE: 09/01/95

DESCRIPTION: The Samaritan provides cost free assistance to motorists and other service personnel at a wide variety of transient incidents, such as disabled vehicles, accident scenes, lost motorists, sick or injured motorists, pedestrians and animals on roadway, dangerous debris, vehicle or brush fires, fuel leaks and other transient incidents. The priorities of the program are: the safety and well being of the people at the incident scene, the rapid clearing of vehicles, debris and equipment from the travel lanes and the provision of recovery information.

FACILITIES: One fully equipped, professionally staffed Samaritan Emergency Response Vehicle patrolling I-91/391 in downtown Springfield during AM and PM peak travel periods.

STATUS: Formulation Phase

TOTAL BUDGET: \$93,000/year

FUNDING SOURCE: Massachusetts Highway Department & CVS Pharmacies

CONTACT: Ric Morgan O'Connor President/Samaritania, Inc.

TEL: (508) 541-6224 ext. 202 FAX: (508) 541-8615

South Jersey Transportation Authority

Emergency Phone Service - Test Bed Project

LOCATION: Southern New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Cellular Help Line to supplement existing call boxes on Atlantic City Expressway.

FACILITIES: Atlantic City Expressway

STATUS: Inactive

TOTAL BUDGET:

FUNDING SOURCE:

South Jersey Transportation Authority

ETTM

LOCATION: New Jersey

CONTRACTOR: MFS Network Technologies

BEGIN DATE: 06/20/95

END DATE: 01/31/97

OPER. DATE: 01/31/97

DESCRIPTION: Part of E-ZPass.

FACILITIES: Atlantic City Expressway

STATUS: Design/construction being awarded

TOTAL BUDGET: \$7,496,502

FUNDING SOURCE: FHWA/SJTA (80/20)

CONTACT: Donald Mauer

TEL: (609) 561-6643 FAX: (609) 561-6849

**South Jersey Transportation Authority, New Jersey
DOT, NJHA**

**Atlantic City Expressway and Rt 30/40/322 Corridor
Motorist Information**

LOCATION: Southern New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Portable HAR and VMS, call in system to SJTA. Related to recreational TOC.

FACILITIES: Atlantic City Expressway, Route 30, Route 40, Route 322, GS Parkway

STATUS: Design proposed

TOTAL BUDGET: \$7,000,000+

FUNDING SOURCE: FHWA

CONTACT: Donald Mauer

TEL: (609) 561-6643 FAX: (609) 561-6849

TRANSCOM

CCTV at Interchange 163 of the Garden State Parkway

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 07/01/96

DESCRIPTION: Installation of 2 video cameras to monitor the vicinity of Interchange 163 on the Garden State Parkway, including Route 17. Video feeds will go to the NJHA, TRANSCOM, the Bergen County Police Department, and NJDOT.

FACILITIES: Garden State Parkway

STATUS: Design, FHWA approval to proceed with final design. Installation expected early 1996.

TOTAL BUDGET: \$200,000

FUNDING SOURCE: FHWA

CONTACT: Jude Depko - Traffic Engineer, NJHA
TEL: (908) 442-8600 FAX: (908) 442-1480

CONTACT: Tom Batz - Mgr., Technology Development, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM

CCTV at Raritan River Crossings

LOCATION: Northern New Jersey

CONTRACTOR:

BEGIN DATE: 07/01/92

END DATE:

OPER. DATE: 07/01/92

DESCRIPTION: Compressed video feed from NJHA Executive Offices to TRANSCOM demonstrating compressed video technology at various transmission rates.

FACILITIES: Raritan River Crossings

STATUS: Operational

TOTAL BUDGET: \$50,000

FUNDING SOURCE: FHWA

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

CONTACT: Jude Depko - Traffic Engineer, NJHA
TEL: (908) 442-8600 FAX: (908) 442-1480

TRANSCOM

CCTV at the Triborough Bridge

LOCATION: New York City

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Installation of 3 video cameras to monitor Triborough Bridge and approaches (ie, Bruckner Exp., FDR Drive). Video feeds will go to the TBTA, TRANSCOM, NYCDOT (40 Worth St), NYCDOT (Long Island City).

FACILITIES: Triborough Bridge

STATUS: Design, FHWA approval to proceed with final design, installation expected by summer of 1996.

TOTAL BUDGET:

FUNDING SOURCE: FHWA

CONTACT: Naomi Leisman - NYCDOT
TEL: (212) 360-2812 FAX:

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM

Construction Coordination Program

LOCATION: New York metro area

CONTRACTOR:

BEGIN DATE: 01/01/86

END DATE:

OPER. DATE:

DESCRIPTION: Maintains a long-run database of construction activities of TRANSCOM members; reports via telefax on a weekly basis all major traffic and transit construction and traffic generating events; mitigates inter-agency program conflicts.

FACILITIES:

STATUS: Operational

TOTAL BUDGET: \$124,691

FUNDING SOURCE: 12 agencies

CONTACT: Sanjay Patel - Mgr.-Construction Coordination, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

CONTACT: Keith Horn - Operations Planner
TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM

Geographic Information System

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 01/01/95

DESCRIPTION: GIS to contain incident data, construction project data, HAR and VMS inventories.

FACILITIES:

STATUS: Installation completed

TOTAL BUDGET: \$200,000 (purchase and installation)

FUNDING SOURCE: FHWA

CONTACT: Bill Burke - Mgr., Info. and Comm. Systems, TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM

George Washington Bridge Highway Advisory Radio

LOCATION: New York, New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Proposed installation of HARS for George Washington Bridge to provide motorist information on critical highway approaches within 1.5 miles of the Bridge. System would consist of two telephone operated transmitter and fixed message signs advising of service.

FACILITIES: George Washington Bridge, Cross Bronx Expressway (I-95), Major Deegan Expressway (I-287), Harlem Riv , Palisades Interstate Parkway, Rt. 9W

STATUS: Design underway

TOTAL BUDGET: \$80,000

FUNDING SOURCE:

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM

Interagency Remote Video Network

LOCATION: New York City metro area

CONTRACTOR

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: System will provide TRANSCOM member agencies with video feeds from other member agencies' facilities. TRANSCOM intends to have system operational by the early 1996.

FACILITIES:

STATUS: Inventory of existing & planned camera systems underway

TOTAL BUDGET: \$1,200,000

FUNDING SOURCE: FHWA

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM

Operations Information Center

LOCATION:

CONTRACTOR:

BEGIN DATE: 01/01/86

END DATE:

OPER. DATE:

DESCRIPTION: Sends notifications of incidents to TRANSCOM' s network of several hundred highway, police and transit agencies and media implements regional elements of IM plans; marshalls resources, eg VMS, HAR, in order to mitigate impact of incidents. Oper around the clock.

FACILITIES:

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: 12 agencies

CONTACT: Bernie Wagenblast - Mgr., Operations, TRANSCOM

TEL: (201) 963-4033

FAX: (201) 963-7488

TRANSCOM

Region-Wide IVHS Implementation Strategy

LOCATION: New York Metropolitan area

CONTRACTOR: James H. Kell and Associates

BEGIN DATE: 06/01/93

END DATE: 06/10 /94

OPER. DATE:

DESCRIPTION: Develop a regional strategy for implementing IVHS technologies and associated strategies throughout the TRANSCOM region. Implement the final approved system architecture.

FACILITIES: Regional architecture approved by member agencies in March, 1995; implementation beginning.

STATUS: Initial alternative configurations report completed and workshop held with TRANSCOM member agencies to discuss options

TOTAL BUDGET: \$2,105,000

FUNDING SOURCE: FHWA

CONTACT: Thomas Werner - Director of Traffic Engineering and Safety Division, NYSDOT

TEL: (518) 457-6438 FAX: (518) 457-1780

CONTACT: Lou Neudorff - JHK

TEL: (212) 473-3310 FAX: (212) 473-3614

TRANSCOM

Regional Variable Message Sign Project

LOCATION: New York, New Jersey, Connecticut

CONTRACTOR:

BEGIN DATE: 01/01/93

END DATE:

OPER. DATE:

DESCRIPTION: Proposal to install variable message signs at strategic locations throughout the New York metropolitan region.

FACILITIES: I-95 in NY/NJ/CT, NYSTWY, I-287 in NY/NJ; I-278 @ Staten Island Expwy; I-495; GSP; Bruckner; others

STATUS: 2 VMS for ConnDOT installed, 18 other VMS in design

TOTAL BUDGET: \$2,000,000

FUNDING SOURCE: FHWA

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM

Service Area Traveller's Interactive Network (SATIN)

LOCATION: New York, New Jersey, Connecticut

CONTRACTOR:

BEGIN DATE: 07/01/94

END DATE:

OPER. DATE:

DESCRIPTION: TRANSCOM has funding for a project involving the dissemination of real-time traffic and transit information to travelers through a network of interactive kiosks at service areas, truck stops, and transit centers in the New York-New Jersey-Connecticut metropolitan areas.

FACILITIES:

STATUS: RFI being prepared.

TOTAL BUDGET: \$1,000,000

FUNDING SOURCE: FHWA

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM

TEL: (201) 963-4033

FAX: (201) 963-7488

TRANSCOM

TRANSMIT

LOCATION: Spring Valley in Rockland County, Tappan Zee in Westchester County, NY, and at Hillsdale Toll Plaza in NJ

CONTRACTOR: PBFi (contractor), Daidone Electric (equipment) and NJIT (evaluation)

BEGIN DATE: 02/01/91

END DATE: 12/01/96

OPER. DATE:

DESCRIPTION: The TRANSMIT (TRANSCOM System for Managing Incident and Traffic) system utilizes vehicles equipped with E-ZPass tags as probes for traffic monitoring and incident detection. The project has 22 overhead reader sites along the 20 mile long test bed. The information from these reader sites are transmitted to the central processing sites at TRANSCOM offices via leased phone lines and spread spectrum radio. The data is collected, analyzed, and presented in graphical map form.

FACILITIES:

STATUS: Evaluation will be completed in May 1996.

TOTAL BUDGET: \$3,500,000

FUNDING SOURCE: FHWA

CONTACT: Tom Batz - Mgr., Tech Development - TRANSCOM

TEL: (201) 963-4033

FAX: (201) 963-7488

CONTACT: Phil Tarnoff - Farradyne Systems

TEL: (301) 816-1855

FAX: (301) 816-1884

TRANSCOM

Transportation Operations Planning

LOCATION: New York Metro area

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: This program has shifted from development of formal corridor management plans to providing interagency communications and coordination on a regional basis. TRANSCOM focuses on planning, development and implementation for regional responses to: major incidents, significant long term construction projects, and major special events with a regional impact. As many agencies assume a greater responsibility for centralized incident detection and notification, TRANSCOM facilitates interagency communications and ensures all regional resources are considered as plans are developed and implemented.

FACILITIES:

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: 12 agencies

CONTACT: David Judd - Mgr.- Transportation Operations Planning

TEL: (201) 963-4033

FAX: (201) 963-7488

TRANSCOM, New Jersey DOT

Route 4 & 17 CCTV/HAR

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Installation of two CCTV cameras and one HAR system, operated by Bergen County Police Dept., maintained by NJDOT. Video fees go to Bergen County Police Dept., TRANSCOM, NJDOT-Newark, NJDOT-Trenton.

FACILITIES: Route 4, Route 17

STATUS: Operational

TOTAL BUDGET: \$425,000

FUNDING SOURCE: FHWA

CONTACT: Paul Einreinhofer - Sergeant
TEL: (201) 599-6210 FAX: (201) 646-3344

CONTACT: Tom Batz - Mgr., Tech Development, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM, New Jersey Turnpike Authority

CCTV at Interchange 16W

LOCATION: New Jersey Turnpike

CONTRACTOR:

BEGIN DATE: 01/01/94

END DATE:

OPER. DATE:

DESCRIPTION: Proposal to install closed circuit cameras for traffic surveillance at interchange 16W of the New Jersey Turnpike.

FACILITIES: New Jersey Turnpike

STATUS: In design.

TOTAL BUDGET: \$200,000

FUNDING SOURCE: FHWA

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM, New Jersey Turnpike Authority

New Jersey Turnpike VMS

LOCATION: New Jersey

CONTRACTOR:

BEGIN DATE: 05/27/93

END DATE:

OPER. DATE:

DESCRIPTION: Design and installation of 6 variable message signs at various sites along the New Jersey Turnpike.

FACILITIES: New Jersey Turnpike

STATUS: Design underway

TOTAL BUDGET: \$1,500,000

FUNDING SOURCE: FHWA, NJTA

CONTACT: Robert Dale - Director of Operations, NJTA
TEL: (908) 247-0900 ext. 5401 FAX: (908) 937-5926

CONTACT: Tom Batz - Mgr., Tech. Development, TR.ANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM, New York State Thruway Authority
CCTV Installation at or near the Tappan Zee Bridge

LOCATION: New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 07/01/95

DESCRIPTION: Installation of 5 video cameras to monitor the Tappan Zee Bridge and portions of I-87/287. Video feeds will go to the NYSTA and TRANSCOM.

FACILITIES:

STATUS: Installed

TOTAL BUDGET: \$200,000

FUNDING SOURCE: FHWA

CONTACT: John Baniak - Director of Operations, NYSTA

TEL: (518) 436-2830 FAX: (518) 449-3198

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM

TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM, New York State Thruway Authority

CCTV on I-87

LOCATION: Westchester County, New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: Installation of video cameras at various locations to monitor various points on the I-87. Video feeds will go to TRANSCOM, NYSTA.

FACILITIES: I-87, New York

STATUS: Design underway

TOTAL BUDGET: \$400,000

FUNDING SOURCE: FHWA

CONTACT: John Baniak - Director of Operations, NYSTA
TEL: (518) 436-2830 FAX: (518) 449-3198

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

TRANSCOM, NJ-HA, NJ-DOT, FHWA

Alternate Bus Routing, Int 129

LOCATION: New Jersey

CONTRACTOR: Hughes Ground Systems

BEGIN DATE:

END DATE:

OPER.DATE : 01/01/96

DESCRIPTION: Would provide alternate bus routing information regarding the best available routes from the Raritan River on the Garden State Parkway (Interchanges 127 & 129) to New Jersey Turnpike's Interchange 11.

FACILITIES: Garden State Parkway, New Jersey Turnpike

STATUS: Design has begun. Installation expected by early 1996.

TOTAL BUDGET: \$1,047,784

FUNDING SOURCE: FHWA, NJHA, Hughes

CONTACT: Charlie McManus - NJHA
TEL: (908)442-8600 FAX:

CONTACT: Tom Batz - Mgr., Tech. Development, TRANSCOM
TEL: (201) 963-4033 FAX: (201) 963-7488

Triborough Bridge and Tunnel Authority

ETTM

LOCATION:

CONTRACTOR: Mark IV, Amtech, Lockheed

BEGIN DATE:

END DATE: 06/01/96

OPER. DATE: 08/01/95

DESCRIPTION: Part of E-ZPass.

FACILITIES: All

STATUS: On schedule for 8/95 implementation.

TOTAL BUDGET: \$14,500,000

FUNDING SOURCE: Tolls

CONTACT: Phil Leshinsky

TEL: (212) 468-2340

FAX: (212) 474-8910

Trucking Research Institute (TRI) with PFMI

Regulatory Applications of ITS/CVO

LOCATION: Nationwide

CONTRACTOR: The ATA Foundation, Inc., 660 Roosevelt Ave., Pawtucket, RI, 02860. Ph: (401) 722-7800; Fax: (401) 722-0109

BEGIN DATE: 10/01/93

END DATE: 06/01/96

OPER. DATE:

DESCRIPTION: Examine the potential benefits/costs of the proposed FHWA's ITS/CVO user services program in relation to safety and other commercial vehicle regulatory processes (Congressional mandated study)

FACILITIES:

STATUS: Analysis completed 10/95; outreach from 10/95 - 06/96.

TOTAL BUDGET: \$375,000

FUNDING SOURCE: FHWA-Office of Motor Carriers

CONTACT: Jeff Loftus

TEL: (202) 366-4516 **FAX:** (202) 366-7908

Virginia DOT

An Investigation of Operational Procedures for HAR Systems

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 07/01/94

END DATE: 06/01/95

OPER. DATE:

DESCRIPTION: The purpose of this research effort is to enhance the HAR operational guidelines currently in use by VDOT. To accomplish this, the study team is investigating HAR equipment, personnel considerations, signing, message development, and motorist opinions of HAR.

FACILITIES:

STATUS: Ongoing

TOTAL BUDGET: \$31,500

FUNDING SOURCE: State

CONTACT: Catherine McGhee - Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1973

FAX: (804) 293-1990

CONTACT: Brian L. Smith - Senior Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1930

FAX: (804) 293-1990

Virginia DOT

Automatic Data Collection on Transit Users Via Radio Frequency Identification

LOCATION: Charlottesville, Virginia

CONTRACTOR:

BEGIN DATE: 09/01/95

END DATE:

OPER. DATE:

DESCRIPTION: This project will examine the feasibility of implementing an automatic data collection information system for improved transit system operation based upon radio frequency identification (RF/ID) of transit users. The system involves incorporating RF/ID technology into smart card bus passes to improve the methods of transit user data collection. Passengers carrying the cards can then be uniquely identified to collect real-time information concerning fares, demographics, arrivals, departures, and transit stops. Transit operators can use the information to improve route planning, scheduling, fare collection, capacity, and demand analysis.

FACILITIES:

STATUS: This project is scheduled to begin in the Fall of 1995.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Manuel D. Rossetti - University of Virginia, School of Engineering and Applied Science

TEL: (804) 9244270 FAX: (804) 982-3096

CONTACT: Mike Demetsky - Faculty Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1942 FAX: (804) 293-1990

Virginia DOT

Development of a Pilot Short Course: Effective Use of Portable Variable Message Signs

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 03/01/95

END DATE: 12/01/95

OPER. DATE:

DESCRIPTION: This effort includes the development and teaching of a pilot VMS short course. The course will consist of notes, case studies, training video, and a software interface. The material for the course will draw heavily from the VMS guidelines developed by the author. Finally, an important part of the project will be to refine the course based on feedback from attendees.

FACILITIES:

STATUS: Ongoing (Pilot course will be taught in June and July)

TOTAL BUDGET: \$20,000

FUNDING SOURCE: FHWA and State

CONTACT: John Miller

TEL: (804) 293-1999

FAX: (804) 293-1990

Virginia DOT

Effectiveness of VMSs in Controlling Vehicle Speeds in Work Zones: Phase II

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 02/01/95

END DATE: 06/01/96

OPER. DATE:

DESCRIPTION: Phase I of this study showed that a VMS with radar is more effective than standard signs in altering drivers' behavior in work zones. This Phase II study will investigate the effect of duration of exposure to VMS with radar and the effect of work zone length on drivers' behavior.

FACILITIES:

STATUS: Ongoing

TOTAL BUDGET: \$105,500

FUNDING SOURCE: FHWA and State

CONTACT: Nicholas J. Garber

TEL: (804) 293-1908

FAX: (804) 293-1990

Virginia DOT

Evaluation and Enhancement of the ITS Planning Process

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 07/01/94

END DATE: 10/01/95

OPER. DATE:

DESCRIPTION: The purpose of this research project is to evaluate and improve the federal ITS Planning and Project Deployment Process. This process has been widely used to conduct early deployment planning studies throughout the country. The project team is focusing on the performance of the process on the COMPARE early deployment project in Hampton Roads, Virginia.

FACILITIES:

STATUS: Ongoing

TOTAL BUDGET: \$86,000

FUNDING SOURCE: FHWA

CONTACT: Brian L. Smith Senior Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1930

FAX: (804) 293-1990

Virginia DOT

Extension of Northern Virginia Traffic Management System

LOCATION: Fairfax and Prince William Counties

CONTRACTOR: ALCATEL Contracting

BEGIN DATE: 03/01/95

END DATE:

OPER. DATE: 07/01/97

DESCRIPTION: Extension of existing freeway control system is currently under construction. It will add approximately 20 miles on I-66 and 20 miles on I-95. It will include CCTV, VMS, and loops. Also, the existing 20 miles is planned to be upgraded to fiber optic communications within this contract.

FACILITIES: I-66 and I-95

STATUS: Construction underway

TOTAL BUDGET: \$27,000,000

FUNDING SOURCE: FHWA and State

CONTACT: Kenneth Wester - Assistant District Engineer, Operations, VDOT
TEL: (703) 934-7317 FAX: (703) 934-5626

CONTACT: Charles Hall - Assistant State Traffic Engineer, VDOT
TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT

Extension of Suffolk District Traffic Management System

LOCATION: Hampton Roads Region, Virginia

CONTRACTOR: URS Consultants, Inc.

BEGIN DATE:

END DATE: 10/01/96

OPER. DATE:

DESCRIPTION: Extension of the nearly completed freeway control system is currently under design.

FACILITIES: I-64, Rte 44, I-564, I-264, I-664

STATUS: Under design

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Charles Hall - Assistant State Traffic Engineer, VDOT

TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT

FASTOLL

LOCATION: Northern Virginia

CONTRACTOR: Syntonic

BEGIN DATE: 03/01/94

END DATE:

OPER. DATE: 01/01/96

DESCRIPTION: ETTM on the Dulles Toll Road. Tolls will be deducted from prepaid accounts. It is intended that the design of FASTOLL be adaptable for tolling applications throughout Virginia.

FACILITIES: Dulles Toll Road

STATUS: Under construction

TOTAL BUDGET: \$11,800,000

FUNDING SOURCE: Toll revenues

CONTACT: Charles Hall - Assistant State Traffic Engineer, Virginia DOT

TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT

GIS Routing Applications

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 12/01/95

END DATE: 04/01/97

OPER. DATE:

DESCRIPTION: Virginia Connections, the strategic plan for transportation, states the Commonwealth will develop comprehensive and accurate transportation network mapping through GIS applications to support real-time routing analysis and other ITS technologies. This 2 phase research effort will determine how a GIS can be used for this purpose. The 1st phase will identify and examine all possible VDOT applications of GIS routing and will include hazardous material routing, incident response planning, and congestion mitigation strategies. Phase 2 of the study will demonstrate one of the applications identified in the first phase using data from the Albemarle County area.

FACILITIES: VTRC GIS Laboratory

STATUS: Programmed Study

TOTAL BUDGET: \$40,000

FUNDING SOURCE: FHWA and State

CONTACT: Brian L. Smith Senior Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1930

FAX: (804) 293-1990

Virginia DOT

Hampton Roads Early Deployment Study - COMPARE

LOCATION: Hampton Roads Area, Virginia

CONTRACTOR: Northeast Consultants

BEGIN DATE: 06/01/94

END DATE: 08/01/95

OPER. DATE:

DESCRIPTION: A planning effort for IVHS in Hampton Roads, including the development of a comprehensive concept plan for implementation of technologies; design of an inter-agency communication system; and development of an ATIS.

FACILITIES:

STATUS: Complete

TOTAL BUDGET: \$500,000

FUNDING SOURCE: FHWA (\$486,000) and State

CONTACT: Charles Hall - Assistant State Traffic Engineer, Virginia DOT

TEL: (804) 786-6777

FAX: (804) 225-4978

CONTACT: Matt Miller - FHWA, Virginia Division

TEL: (804) 281-5108

FAX: (804) 281-5101

Virginia DOT

Hampton Roads Traffic Information Hotline

LOCATION: Hampton Roads Region, Virginia

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE: 01/15/93

DESCRIPTION: VDOT is participating in INFOLINE, a telephone information service operated by a local newspaper, to provide current traffic information on major crossings in the region.

FACILITIES: Bridge-Tunnels: Hampton Roads, Monitor-Merrimac Memorial;
Tunnels: Downtown, Midtown; Bridges: Coleman, James River.

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: State

CONTACT: James E. Harrison - Resident Engineer, Tidewater Tunnel
Facilities, Virginia, DOT

TEL: (804) 727-4810 FAX: (804) 727-4851

Virginia DOT

Highway Surveillance Television Broadcast

LOCATION: Northern Virginia

CONTRACTOR:

BEGIN DATE: 08/01/92

END DATE:

OPER. DATE:

DESCRIPTION: Several television stations broadcast video from the CCTVs of the Northern Virginia TMS as part of area traffic reports. System may be expanded to provide video feeds to information kiosks at activity centers.

FACILITIES: I-395, I-95, I-66, Woodrow Wilson Bridge

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: TV station provided necessary equip

CONTACT: Jimmy Chu - Traffic Management System Manager, Virginia DOT

TEL: (703) 521-5695 FAX: (703) 521-5455

CONTACT: Charles Hall - Assistant State Traffic Engineer, Virginia DOT

TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT

I-66/I-95/I-395 Traffic Management System

LOCATION: Northern Virginia

CONTRACTOR:

BEGIN DATE: 01/01/85

END DATE:

OPER. DATE: 01/01/85

DESCRIPTION: Incident detection, HOV lane operation, and congestion management managed at TMS center in Arlington. 550 loop detectors at 1/2 mile intervals, 48 CCTV's, 100 VMS's, and 26 ramp meters.

FACILITIES: 10 mi. of I-66, 11.5 mi. of I-395, 10 mi. of Capital Beltway (I-95/495), Woodrow Wilson Bridge.

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: FHWA and State

CONTACT: Jimmy Chu - Traffic Management System Manager, Virginia DOT

TEL: (703) 521-5695 FAX: (703) 521-5455

Virginia DOT

Integrated Traffic Management

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 10/01/95

END DATE: 11/01/97

OPER. DATE:

DESCRIPTION: Research to determine the most effective means of integrating various traffic management systems. This effort will include identifying the appropriate hardware for integrating signal systems with large scale traffic management efforts as well as determining an overall scheme for integrating the separate systems throughout the state.

FACILITIES:

STATUS: Programmed Study

TOTAL BUDGET: \$45,000

FUNDING SOURCE: FHWA and State

CONTACT: Catherine McGhee - Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1973

FAX: (804) 293-1990

Virginia DOT

Northern Virginia Early Deployment Study

LOCATION: Northern Virginia Region

CONTRACTOR: DeLeuw, Cather & Company of Virginia

BEGIN DATE: 0510 1/95

END DATE: 0510 1/96

OPER. DATE:

DESCRIPTION: Purpose is to prepare the Northern Virginia region for the successful deployment of ITS. It will produce two important plans: an ITS strategic deployment plan and an ATMS implementation plan. A suggested architecture for the integration of existing and future ATMS initiatives in the Northern Virginia region is a significant goal for this study.

FACILITIES:

STATUS: Underway

TOTAL BUDGET: \$500,000

FUNDING SOURCE: FHWA and State

CONTACT: Kenneth Wester - Assistant District Engineer, Operations, VDOT
TEL: (703) 934-7317 FAX: (703) 934-5626

CONTACT: J. R. Robinson - Director, ITS Programs, VDOT
TEL: (804) 786-6677 FAX: (804) 225-4978

Virginia DOT

Northern Virginia Traffic Operations Center

LOCATION: Fairfax, Virginia

CONTRACTOR:

BEGIN DATE: 07/01/94

END DATE:

OPER. DATE:

DESCRIPTION: The traffic operations center (TOC) serves as the clearinghouse for traffic information in the Northern Virginia District. Coordination of snow removal, incidents, construction and maintenance activities, and other highway operations is done through this center. Direct communication is maintained with state police, local police, local fire departments, VDOT Safety Service Patrols, maintenance crews, the National Weather Service, public transportation agencies, the media, and others. This center is also responsible for programming HAR and plans are to integrate the TOC with the signal system and the traffic management system.

FACILITIES:

STATUS: Ongoing

TOTAL BUDGET:

FUNDING SOURCE: State

CONTACT: Ken Wester - Assistant District Engineer, Operations, VDOT

TEL: (703) 934-7317 FAX: (703) 934-5626

CONTACT: Ron Miner TOC Manager, VDOT

TEL: (703) 359-1142 FAX: (703) 934-0769

Virginia DOT

Northern Virginia Traffic Signal System

LOCATION: Fairfax, Loudon and Prince William Counties

CONTRACTOR: ALCATEL Contracting

BEGIN DATE: 12/01/93

END DATE: 07/01/96

OPER. DATE:

DESCRIPTION: Installation of a centrally controlled signal system which will operate 700 signals with expansion capabilities to at least 2,000. VDOT is considering strategies for integrating the system with regional ATMS.

FACILITIES: All signals in the three counties

STATUS: Under construction

TOTAL BUDGET: \$12,000,000

FUNDING SOURCE: FHWA, State, oil overcharge funds

CONTACT: Kenneth Wester - Assistant District Engineer, Operations,
Virginia DOT

TEL: (703) 934-7317 FAX: (703) 934-5626

CONTACT: Charles Hall - Assistant State Traffic Engineer, Virginia DOT

TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT

Operation and Maintenance of the Suffolk District Traffic Management System

LOCATION: Hampton Roads Region, Virginia

CONTRACTOR: URS Consultants, Inc.

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: The operation and maintenance of the Suffolk District Traffic Management System will be conducted by the consultant under immediate supervision of VDOT staff.

FACILITIES: I-64, Rte 44

STATUS: Contractor is awaiting notice to proceed

TOTAL BUDGET; \$12,800,000

FUNDING SOURCE: State Maintenance

CONTACT: Stephany Hanshaw - Traffic Management System Manager, VDOT

TEL: (804) 424-9907 FAX: (804) 424-9911

CONTACT: Charles Hall - Assistant State Traffic Engineer, VDOT

TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT

Richmond Early Deployment Study

LOCATION: Richmond Metropolitan Region

CONTRACTOR: Frederic R. Harris

BEGIN DATE: 10/01/95

END DATE: 10/01/96

OPER. DATE:

DESCRIPTION: To prepare the region for the successful, near-term deployment of ITS. This study will also provide an opportunity to examine the provision of inter-regional ITS user services in Virginia.

FACILITIES:

STATUS: Underway

TOTAL BUDGET: \$500,000

FUNDING SOURCE: FHWA and State

CONTACT: J. R. Robinson - Director, ITS Programs, VDOT
TEL: (804) 786-6677 FAX: (804) 225-4978

CONTACT: Matt Miller - FHWA, Virginia Division
TEL: (804) 281-5108 FAX: (804) 281-5101

Virginia DOT

Rural Transit Traveler Information System (RTTIS) Operational Test

LOCATION: Blacksburg, Virginia

CONTRACTOR:

BEGIN DATE: 09/01/95

END DATE: 03/01/97

OPER. DATE:

DESCRIPTION: Making transit usage a positive experience for its users is the key to increasing ridership. This project will show the rider exactly how long until the arrival of the next bus by use of personal computer or telephone. Blacksburg Transit will test the new traveler information system employing Automatic Vehicle Location & Monitoring (AWAVM) technology. This test can be seen as a scale model to larger metropolitan systems. The goals are to: (1) Equip 30 buses with AVM equipment to monitor its position from central dispatch; and (2) Maintain a central dispatch that will calculate arrival times to various bus stops, and then distribute the information to travelers through various media.

FACILITIES:

STATUS: This 18 month project is expected to begin in late Summer 1995.

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Bob James - Senior Research Associate, Center for Transportation Research

TEL: (540) 231-7740

FAX: (540) 231-5214

Virginia DOT

Safety and Transportation Management on the National Highway System

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 10/01/95

END DATE: 08/01/96

OPER. DATE:

DESCRIPTION: On Virginia's portion of the national highway system (NHS) there exists traffic management systems of various complexities. Given the state's experience, this research effort will determine the relationship between different levels of traffic management and the safety and operational efficiency of NHS facilities. This effort will result in a deliverable which (1) quantifies the ITS benefits experienced in Virginia, and (2) provides specific recommendations for ITS deployment on the NHS.

FACILITIES:

STATUS: Programmed Study

TOTAL BUDGET: \$30,000

FUNDING SOURCE: FHWA and State

CONTACT: Brian L. Smith Senior Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1930

FAX: (804) 293-1990

Virginia DOT

Simulation Analysis of Route Diversion Strategies for Freeway Incident Management

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 04/01/93

END DATE: 06/01/94

OPER. DATE:

DESCRIPTION: Research project to establish a methodology for analyzing diversion strategies using CORSIM, a microscopic simulation model developed by the FHWA capable of simultaneously analyzing freeway and arterial roadways. The results of the study show that the model is a valuable tool in analyzing diversion strategies; the critical freeway volume at which diversion becomes advantageous can be determined, as can bottleneck locations on the alternate routes. Signal timing adjustments can be tested and fine-tuned to achieve the ideal maximum flow along the diversion route.

FACILITIES:

STATUS: Completed study; final report available

TOTAL BUDGET: \$66,000

FUNDING SOURCE: FHWA and State

CONTACT: Catherine McGhee - Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1973

FAX: (804) 293-1990

Virginia DOT

Statewide Emergency Operation Center

LOCATION: VDOT Central Office, Richmond, Virginia

CONTRACTOR:

BEGIN DATE: 10/01/94

END DATE:

OPER. DATE: 10/01/94

DESCRIPTION: The Emergency Operations Center (EOC) coordinates highway emergencies for the entire state. Originally, the center was established to coordinate activities during winter weather events. Now duties of the center have expanded to include answering citizen calls on the Highway Helpline and serve as a clearinghouse for construction, emergency, and major incident information. Center staff are aided by an Emergency Information System (EIS) which was developed by EIS International.

FACILITIES:

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE: State

CONTACT: Steve Mondul - Emergency Operations Center Manager, VDOT
TEL: (804) 786-2848 FAX: (804) 225-4979

CONTACT: 24 Hour Watch Officer
TEL: 1-800-367-ROAD FAX: (804) 225-4979

Virginia DOT

Suffolk District Traffic Management System

LOCATION: Hampton Roads Region, Virginia

CONTRACTOR: URS (prime); Frederic R. Harris and Langley & McDonald (subs)

BEGIN DATE: 08/01/93

END DATE:

OPER. DATE: 02/01/96

DESCRIPTION: Loop detectors, CCTVs, VMSs for traffic surveillance, control, and management on the 8-mile reversible bus and HOV roadway in the median of I-64, the concurrent flow HOV lanes on I-64 , 4 miles of VA-44, and eventually the entire regional freeway system.

FACILITIES: I-64, VA-44

STATUS: Installation underway

TOTAL BUDGET: \$12,000,000

FUNDING SOURCE: Federal and State construction fund

CONTACT: Stephany Hanshaw - Traffic Management System Manager, Virginia DOT

TEL: (804) 424-9907 FAX: (804) 424-9911

CONTACT: Charles Hall - Assistant State Traffic Engineer, Virginia DOT

TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT

Suffolk District Tunnel Traffic Management Systems

LOCATION: Hampton Roads Region, Virginia

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: CCTV's, loop detectors, and VMS's for incident detection and traffic management in the Downtown Tunnel (I-264), the Hampton Roads Bridge-Tunnel (I-641, and the Monitor-Merrimac Memorial Bridge-Tunnel (I-664). The latter two also utilize HAR.

FACILITIES: Hampton Rds Bridge-Tunnel- I-64, Downtown Tunnel- I-264, Monitor-Merrimac Mem Bridge-Tunnel- I-664; collectively 17 miles.

STATUS: Operational

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: James E. Harrison - Resident Engineer, Tidewater Tunnel Facilities, Virginia DOT

TEL: (804) 727-4810 FAX: (804) 727-4851

Virginia DOT

Traffic Control for High Occupancy Vehicle Facilities

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 06/01/95

END DATE: 07/01/96

OPER. DATE:

DESCRIPTION: This research project focuses on HOV facilities in Virginia and the traffic control strategies used on these facilities. The objectives of the study are (1) to determine the most effective types of traffic control for HOV facilities in Virginia, (2) to determine the reasons for non-compliance with HOV regulations, and (3) to develop a set of guidelines to aid traffic engineers in Virginia in planning and implementing HOV traffic control strategies.

FACILITIES:

STATUS: Programmed Study

TOTAL BUDGET: \$36,000

FUNDING SOURCE: FHWA and State

CONTACT: Catherine McGhee Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1973

FAX: (804) 293-1990

Virginia DOT

Traffic Flow Forecasting for Intelligent Transportation Systems (ITS) Application

LOCATION:

CONTRACTOR: Virginia Transportation Research Council

BEGIN DATE: 01/01/93

END DATE: 06/01/95

OPER. DATE:

DESCRIPTION: The purpose of this research effort is to investigate the feasibility of developing a model which can accurately forecast future freeway traffic flow based on real-time detector data. Furthermore, a software architecture will be developed which defines the functional components necessary for improved traffic management.

FACILITIES:

STATUS: Ongoing

TOTAL BUDGET: \$75,000

FUNDING SOURCE: FHWA and State

CONTACT: Brian L. Smith Senior Research Scientist, Virginia Transportation Research Council

TEL: (804) 293-1930

FAX: (804) 293-1990

Virginia DOT

Truck Speed Detection/Warning System

LOCATION: Virginia

CONTRACTOR: Bellomo-McGee, Inc. (BMI)

BEGIN DATE: 10/01/93

END DATE: 12/01/96

OPER. DATE:

DESCRIPTION: Installation of an experimental, prototype automatic truck warning system on three ramps of the I-495 Capital Beltway. The system will alert truck drivers when they are in danger of a rollover approaching the ramp.

FACILITIES: Capital Beltway (I-495)

STATUS: Operational on 2 ramps in VA and 1 in MD

TOTAL BUDGET: \$400,000

FUNDING SOURCE: FHWA (100%)

CONTACT: Bill Harrell - Traffic Engineering, Northern Virginia, VDOT
TEL: (703) 934-0524 FAX: (703) 934-5625

CONTACT: Howie Bissell - FHWA R&D
TEL: (703) 285-2428 FAX:

Virginia DOT

Washington Metropolitan "Umbrella"* Early Deployment Study

LOCATION: Washington Metropolitan Region

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: A study to identify and assess potential regional surface transportation priorities in the national capital area that can be addressed by the application of ITS technologies. This study will also examine the institutional and technical issues required to implement ITS on a regional basis.

FACILITIES:

STATUS: Consultant selected, negotiations underway

TOTAL BUDGET:

FUNDING SOURCE: FHWA, VDOT, Maryland State Highway Administration

CONTACT: J. R. Robinson - Director, ITS Programs, VDOT

TEL: (804) 786-6677 FAX: (804) 225-4978

Virginia DOT and Fairfax County Police

Airborne Video System

LOCATION: Northern Virginia

CONTRACTOR:

BEGIN DATE: 07/01/93

END DATE: 01/01/95

OPER. DATE: 04/01/94

DESCRIPTION: The airborne video system began as an IVHS Operational Test. The system uses a video camera mounted to a Fairfax County Police helicopter to provide a mobile video platform for use in traffic management. The system will supplement fixed surveillance CCTVs with real-time information concerning traffic incidents. System continues to be upgraded and expanded. An antenna was added for Prince William County Police and an additional camera will be purchased by VDOT to increase availability.

FACILITIES:

STATUS: An Evaluation Report, dated 1/95, is available from VDOT

TOTAL BUDGET:

FUNDING SOURCE:

CONTACT: Capt. Bob Fitzpatrick - Fairfax County Police

TEL: (703) 280-0550 FAX: (703) 280-0648

CONTACT: Ron Miner - Traffic Operations Manager, VDOT

TEL: (703) 359-1142 FAX: (703) 934-0769

Virginia DOT, Fairfax County Police Department

I-66 Joint Operations Center

LOCATION: Fairfax County

CONTRACTOR:

BEGIN DATE: 03/01/94

END DATE:

OPER. DATE:

DESCRIPTION: State Police, Fairfax County Police, Fairfax County Fire & Rescue, and VDOT staff Fairfax County (Police) Traffic Information Center during weekday peak periods to coordinate incident response and traffic management as part of the I-66 Reconstruction Management Plan.

FACILITIES:

STATUS:

TOTAL BUDGET:

FUNDING SOURCE: Federal and State

CONTACT: Kenneth Wester - Assistant District Engineer - Operations, Virginia DOT

TEL: (703) 934-7317

FAX: (703) 934-5626

CONTACT: Captain Bob Fitzpatrick - Fairfax County Police Department

TEL: (703) 280-0550

FAX: (703) 280-0648

**Virginia DOT, FHWA, MdSHA, Bell Atlantic Mobile,
Wash. Metro Council of Governments, National Park
Service**

**Cellular Application to IVHS Tracking and Location
(CAPITAL)**

LOCATION: Washington Metropolitan Area

CONTRACTOR: Engineering Research Associates, Inc., Farradyne Systems, Inc.,
Bell Atlantic Mobile Systems

BEGIN DATE: 08/01/93

END DATE:

OPER. DATE:

DESCRIPTION: This op test will evaluate the use of the Bell Atlantic cellular
telephone infrastructure with passive statistical cellular and
cellular geolocation technologies to estimate traffic congestion
info and ID incidents.

FACILITIES:

STATUS: Op test complete, evaluation nearing completion

TOTAL BUDGET: \$7,169,420

FUNDING SOURCE: FHWA & Private Partners

CONTACT: Bob Ewald - Program Manager, Engineering Research
Associates, Inc.
TEL: (703) 734-8858 FAX:

CONTACT: Charles Hall - Assistant State Traffic Engineer, VDOT
TEL: (804) 786-6777 FAX: (804) 225-4978

Virginia DOT, Virginia Tech, FHWA

Expert System for Multi-Agency Incident Response

LOCATION: Northern Virginia

CONTRACTOR: Virginia Tech

BEGIN DATE: 08/01/93

END DATE: 09/01/95

OPER. DATE:

DESCRIPTION: Will develop an expert system for coordinating multi-agency response to multiple highway incidents. The system will prompt and assist control center personnel to make decisions about diversion routes, signal retiming, and integrated freeway/arterial control.

FACILITIES: All freeways and arterials

STATUS: Study underway

TOTAL BUDGET:

FUNDING SOURCE: FHWA - Office of Technology Appl.

CONTACT: Kaan Ozbay - Research Assoc., Center for Transp. Research, VA Tech

TEL: (703) 231-7877 FAX: (703) 231-5214

CONTACT: David Helman - FHWA

TEL: (202) 366-8042 FAX: (202) 366-7909

Virginia DOT with Virginia Polytechnic Institute and State Univ.

The University Road Connection - a "Smart Road"

LOCATION: Blacksburg/Roanoke, Virginia

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: A a-mile, two-lane highway facility to serve as a test-bed for IVHS technology. The first IVHS facility built from the ground up in the U.S.

FACILITIES:

STATUS: Preliminary design

TOTAL BUDGET: \$32,000,000

FUNDING SOURCE:

CONTACT: Ray Pethel Interim Director, Center for Transp. Research, VA Tech

TEL: (703) 231-7740 FAX: (703) 231-5214

CONTACT: J. R. Robinson - Director, ITS Programs, VDOT

TEL: (804) 786-6677 FAX: (804) 225-4978

Westchester County (NY)

Aircraft Mounted Traffic Surveillance Video Camera

LOCATION: Westchester County, NY

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION:

FACILITIES: All facilities in county

STATUS: Design work proposed

TOTAL BUDGET:

FUNDING SOURCE: CMAQ

CONTACT: John Hsu - Westchester County

TEL: (914) 285-2556 FAX: (914) 285-2558

Westchester County (NY)
CCTV Bronx River Parkway

LOCATION: Westchester County

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION:

FACILITIES: Bronx River Parkway, Sprain Brook Parkway to NYC line

STATUS: Design work proposed

TOTAL BUDGET:

FUNDING SOURCE: CMAQ

CONTACT: John Hsu - Westchester County

TEL: (914) 285-2556 FAX:

Westchester County (NY)

Communications Center

LOCATION: Westchester County, New York

CONTRACTOR: Metro Traffic, Inc.

BEGIN DATE:

END DATE:

OPER. DATE: 11/01/92

DESCRIPTION: Private, for-profit company gathers and disseminates traffic information to/from Westchester Co. vehicles, transit buses, utility company vehicles, REACT vehicles, police, NYSDOT TOC, aircraft, etc. Provides information to radio and TV stations as well as corporate offices through voice mail system.

FACILITIES: All transportation facilities

STATUS: Operational

TOTAL BUDGET: \$100,000

FUNDING SOURCE:

CONTACT: John Hsu - Westchester County

TEL: (914) 285-2556 FAX:

Westchester County (NY)

Traffic Operations and Surveillance Center

LOCATION: Westchester County, New York

CONTRACTOR:

BEGIN DATE:

END DATE:

OPER. DATE:

DESCRIPTION: TOC coordinates traffic plans for county, local, and private sector projects.

FACILITIES: All county and local highways

STATUS: Operational; ongoing program run in conjunction with NYS DOT.

TOTAL BUDGET:

FUNDING SOURCE: NHS, STP, State

CONTACT: John Hsu - Westchester County

TEL: (919) 285-2556 FAX:

White Plains (NY), City of

Computerized Traffic Signal Systems

LOCATION: White Plains, Westchester County, New York

CONTRACTOR JHK & Associates, Inc. (for 1991-1993 upgrade)

BEGIN DATE: 01/01/91

END DATE: 12/01/93

OPER. DATE: 05/01/82, upgraded system in 10/92

DESCRIPTION: Central computer control of 100 traffic signals in CBD and along portions of Westchester Avenue, Tarrytown Road, Central Avenue and North Broadway.

FACILITIES:

STATUS: Operational

TOTAL BUDGET: \$360,000 (\$190,000 annual operating & planning; \$170,000 capital)

FUNDING SOURCE: Local; City of White Plains. System was originally built in late 1970's with heavy Federal and State funding.

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I-95 CORRIDOR COALITION

ITS Projects in the Northeast Corridor
January 1996